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National Art Gallery (Victoria Hall), 1906 AD.

Back Cover : Museum Theatre, 1896 AD.

Authors of the articles are responsible for their views in their articles.

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Letter from the Commissioner.

I had written in my previous editorial that an International Seminar on "Conservation of Stone Objects especially Limestone Objects" in collaboration with the Nehru Trust for Indian Collections at Victoria and Albert Museum. London at New Delhi and the Indian Association for the Study of Conservation was planned for December 2001 AD. This event is the first International Seminar in the history of this Museum and a Special Exhibition on "Conservation of Stone Objects" was held from 18th to 21th December 2001. Dr. M. Thambidurai, Hon'ble Minister for Education, Government of Tamilnadu inaugurated this. The Valedictory Address was given by Dr. M. Baldey Rai, Director. Materials Management Group, Indira Gandhi Centre for Atomic Research, Kalnakkam, It was attended by Dr. D.A. Swallow, Director of the Indian Collections, Victoria and Albert Museum, London Dr. Robert Knox. Keener of the Indian Collections at British Museum, London and late Dr. Stephen Fowles, Conservation Scientist Conservation Centre, National Museums and Galleries of Merseyside, Whitechanel, Livernool, U.K. There was a big response from national and international conservators and museologists. Dr. V. Jevarni, Curator for Chemical Conservation and Research Laboratory of this Museum became the President of the Indian Association for the Study of Conservation of Cultural Property. The election of Dr. V. Jeyaraj has to be viewed as the sumam bonum of all the efforts out in by the staff of the Department of Archaeology and Museums including those from the districts

In March 2002, a National Festival on Folk Arts coincide with the 50th Anniversary of the Fold Foundation of India was held in collaboration with the National Folklers Support Centre, Chemai. The curred states cleams, which were recovered for and entities year of year forms into a beautiful Open Air Theatre at which many of folk are events were held. Special exhibitions on photographs and only events were held. Special exhibitions on photographs and only intramenes were bold. Bare musical instruments were to held. For most collection of the property of the contract of the property of the contract of the street of the other property of the contract of the contrac

I was invited to become a Member of the Board of the Association of International Museums of History (AIMH) with its headquarters at Paris. This is the first time an Indian has been chosen for this association. The Hon'ble Minister for Education was kind enough to issue a press

release compliousing me and the Department of Museums for this achievement, since it is the first since the 1st System of the existence of the Government Museum, Chemin that one of its personnel was chosen to be a miner for the board of an intermissional Protestional organization of amounts (AMM), as affiliate of EOM (Intermissional Intermission of Americania of Americania (AMM), as affiliate of EOM (Intermissional Engineering of Americania (Americania) (A

We have speat Rs. 62 lakhs worth of schemes under Part II in the Department of Museums. The important items are:

- (i) Rock Art Gallery with son-er-luntere and dichroic halogen lighting activated by infra-red rays. This covers the prebistoric petroglyphs and petrographs. It also covers the historic period of cave pairings and sculptures with reference to Tamiliands sites. The concerpingly of the gallery brings remote sites into Chemnai city providing easy access to the visitors.
 - (ii) By in-house design, we have created hi-tech showcases with dichroic halogen lighting made of frameless float glass. It has an exhaust fan in the unper compartment and silica eel in the lower compartment to control moisture levels. These are on par with international standards and many components like hinges, locks, fans, the dichroic balogen lamos are imported. These showcases have been placed in the Foreign Animals Gallery of the Zoology Section and the first floor of the Bronze Gallery housing Jain and Buddhist bronzes in the Government Museum, Chemiai, These showcases have also been provided to the Government Museum, Madurai and the site Museum of the State Department of Archaeology at Gangaikondacholapuram, Perambalur District, This uneradation of the technology even in the site museum of the Archaeology Department is a direct benefit of the integration of the Department of Museums and Archaeology under one administrative head.

- (iii) A dorman thoucase displying the Malayan Topir in the Foreign Antanais Galleyr of the Zoology Section of the Government Museum, Chennai also uses the same hit-tick lightings and mechanism. In addition, the background scene is not painted as usual, but is a computerised visal print cont of the photographs of the natural helster of the Tagit. The mega size diorana showcase makes it resiline. An article has been written on how we seem about this is placed in the article.
- (iv) The Costume Dolls and Civilisation Galleries of the Children's Museum have also been modernised using some of the technology employed in the hi-tech showcases. They now have veilow lightline, which makes for better viewing.
- (v) Brochures designed and printed to international standards have been Prought out on Rock Art, Coasevastion, Children's Museum, Paintings Section along with a General brochure on the museum as a whole.

 (vi) Rs. 11 lishs worth schemes under Part II of the budget for
- 2001-2002 have been completed in the Archaeology Department. They include see this technology like purchase of power tools for the Conservation Engineering Section, and the Conservation Engineering Section, and the Section Section

the Museum Profession' presented at the Annual Conference of the Museums Association of India at Bhopal on 2-3-2002. It is presented as an article in this issue of the Journal.

Some of the Amaravai sculptures embedded in to the walls especially those below hip level have deteriorated due to absorption of moisture due to rising water levels. Two sculptures have already been removed as a Pilot Project. The Hon'ble Minister for Education inaugerated the project for removing them from the walls, conserving them and redisplaying them in modern showcasss. Several such showcases have been designed as shall be seen below. Funds for the form of the project of the project of the project of the showcases have been designed as shall be seen below. Funds for the form of the project and a Bosch Power Tool for the work have been made available.

The Curator for Archaeology, Chemical Conservation and the engineering wing of the State Archaeology Department have to work together to complete the work.

The website of the Museum have received widespread appreciation from foreign scholars as the best site among the museums in India.

In the issue of this Journal - April to September 2000, we have brought one how we have come across a huge Buddhu statuc and Buddhist artefacts as Petraiwhthalipetain. Trichey District, After two years of pensistent effort these have been shifted to the Government Museum, Trichy, where they have been kept for viewing.

When I visited Multural in September. 1999 I saw two life- size

Tapies para platings, which we en need of conservation. Inform to one to select a conservation scoted message to receive the test for conservation scoted message to the conservation scoted message. Contraction of the conservation of the conservation scoted message to purpose the Conservation of the Conservation of the Conservation of the traction of the Conservation of the Conservation of the Conservation of the traction of the Conservation of Tapier para Design and purpose the Conservation of the Section of the Conservation of Tapier para Design and Conservation of the Conservation of Tapier para Design and Conservation of Conservation of Tapier para Design and Conservation of Conservation

Rs. 10 lakhs worth of priceless old publications of the Mascum Department, like he Publicktoid State lacetgiolow reise cit. have been republished. A highlight of this year's republication is the retention of the original trile gage so that sclothers can have a feed of the old days. New books like the one catalogeing Jain images in the District and Site Mascums in Tomil Noda along with the images found in mountents and even or roadsides have been published this year as part of the schemes amounting too. 8.6. 20 labs to more Part II of the budget.

There was a seminar in Pudakkettai and the republished books of the Pudakkettai Inscription series of books originally published in 1929 AD ecc were released by the entwhile Maharani of the Princely State at the seminar on Epigraphy held at the Government Museum, Published: A present a securine for excessing of incorption by dong way with the off secret of irrecting containing on pages was with the off secret of irrecting containing on pages was a secret of the containing of the containi

Certain collection suctions in the Government Museum, Chermat have Accession Registers which the see solided as not to be visible or in cases the Archeology rely on printed catalogues in certain cases. This year it is proposed to update the Accession Register with the help of Naturaj Software of NIC 50 that accurate particulars are available in electronic form as well as in printed form as hard copies on paper. In this Museum, whoste have been trates 1850 AD mounts. They

have not been indexed so far. Their availability is decentralised with the Curators of the collection section. It is essential if mome of these are not to go missing that they are indexed and preserved both as Compact Disse (CDD) and grintenst. It is proposed to have a popect to do this in the current year. This will also give an interesting insight into how the objects looked around 1859. Alp and how much they have deteriorated or how they have not described in the past 150 years. This will be a great tessor for conservators.

We are exploring new directions in conservation of monuments in the Department of Archanology, A propose Obstanti-bostnessers calling themselves Priceds of Transqu'bte Society have taken up the Archanology and Control of Control of

of Danish volunteers were recommended by the Director, National Museum of Denmark, the Danish Embassy of Delhi and our State Government at Fort St. George. The effort at Tranquebar has received ecoed coverage in the Danish National Daily "Jullandstootten".

The Vittalapuram Temple near Thirukazhukundram, Chingelput district, which is badly in need of restoration is also proposed to be conserved with public donations based on the Tranquebar model.

The simual meeting of Enjigraphy and Archaeology convened by the Commissioner identified monuments like Trunnal in Naicker Mahal, Madwari for conservation, which includes the buildings of the Government Museum, Chennal for a budget of Rt. 5.70 crores this year. This budget provides for e-fisquey of artifacts after conservation of the buildings and electronic surveillance for security in the case of the Government Museum, Chennal

New techniques like use of computer, internet, digital record of inscriptions, the role of archaeologists in conservation etc., were discussed in these meetings and the plan of action for the year 2001-2002 was formulated. Two excavations, one at Mangudi in Tironelyeli and another at Perur in Combatore are planned for this year. Use of computers to record objotos and findings will be a highlight of this year's effort. A very important task taken up this year has been the recording of the 126 - 78 RPM old gramophone records recorded in 1922 AD of the Languages and Dialects of the Madras Presidency as Samele Records by the Gramonhone Company of India (HMV) Calcutta We got a very rare old player to decode the records through the help of the Station Director, All India Radio, Mr.B.R.Kumar, The studio eliminated the noise 'wow' and 'flutter', which Characterizes these old type records and digitally recorded the sounds on CDs. These gramophone records the spoken form of the Languages and Dialects of the Madrus Presidency till 1922. To correlate with this, we have published a book 'Gramophone Records of the Languages and Dialects of the Madras Presidency - Text of Passages' of these records. Therefore any anthropologist who have this book with CDs can have complete access to the data collected up to 1922 AD of the oral traditions of South India. This work was done by the Curator for the Zoology Section in a record time of 5 days. The CDs are available for sale along with the book. They are a collector's dream come true.

The website of this museum is being updated regularly.

I am sure that with the massive efforts being taken for the conservation and retroctation and redisplay of the galleries of this Museum and the important monuments under the control of the State Department of Archaeology, all scholars and lovers of heatings and set throughout the world would feel immensely happy. The Department of Archaeology and Museums with the help of the Interst technology tries in the set to help in preservation and development of ancient and modern knowledges for the heatflest of humanity.

I am sure that with the hard work par in by the Curators and the staff the Department of Archaeology and Mutucums will break a ground based on the vision that we have laid out as the road map this year. Visions, of course, keep changing but the core viz., preservain and presentation of knowledge especially ancient knowledge so that visitors are attracted will remain

Raunar/

Chennai - 600 008. 31-5-2002

(Dr. R.Kannan, Ph.D.,LAS.)



A Tribute to Dr. P. Stephen Fowles

Dr. P. Stephen Fowles is one of the Conservation Physicists of the Conservation Centre of the National Museums and Galleries, Merseyside, White Chapel, Liverpool, L1 6HZ, UK.

He was engaged in conservation of art and unliquities using physical means especially laser techniques. He had published many research papers. He had involved in many projects associated with conservation of archaeological materials and research based one conservation of antiquities and monuments.

He participated in the International Seminar on Conservation of Steme Objects with Special Reference to Lumentone Objects held at Government Museum, Chemai from 18th to 21º December 2001 under the assurpce of the Pokeri Treast for the Indian Collections at the Victoria and Albert Museum at New Delhi. He appreciated, He participated in the post - seminar tour to base the Collection of the Collection of the Collection and Mark Museum at New Delhi. He appreciated. He participated in the post - seminar tour to base the Collection of the Collection of

- Dr. V. Jevarai











- Description of the cultur photographs in the previous page New international standard showcase designed by ourselves
- Natarasa bronze New world class 12 foot size Diorama of Tapir with
- background commuter scanned and vinyl printed
- 3. Newly discovered Buddha of Manameleudi, Pudukkottai district in narronization on attitude of meditation and bands
- placed in dhyana pose 4. A 17th Century AD rectangular memorial stone nillar - 8
 - foot bigh and 2 foot wide from Varshawad of Them district A 16th Century memorial stone pillar - 6 foot high and 1
- foot wide from Thadikompu village of Dindigul district Seshasavi - Simulated display of Mahabalipuram bus relief
 - cave sculenture. Rock and Cave Art Gallery. Government Museum, Chennai New both quality showcase made of anodised aluminium channels, hylum sheets, galvanised iron sheets and 0-40
 - service onsome sheets with true-light Illumination in order to prevent termites and to give an aesthetic view - Kathakalı dolls in a panoramic scene
 - Coat of Arms of the British Sovereign (refer n. 98) Coat of Arms of the British East India Company (refer p. 99)
- 10. Delegates of the International Seminar on Conservation of Stone Objects organised in connection with the 150° Year Celebrations of the Government Museum, Chennal during the post-conference tour at Mahabalipuram
- 11. Coat of Arms likely to be that of the Dutch East India Company (VOC) on a bronze cannon (refer p. 99) 12 Partially renovated Danish Fort at Transmebur in daylight
- 13. Partially repoyated Danish Fort at Tranquebar night view under illumination 14. Cost of Arms of Le Maréchal d' Estrées (France) (refer p. 105)

MUSEUM NEWS

DEPARTMENT OF MUSEUMS, AN INTRODUCTION

Government Messeum, Chemail was established in the year ISSI, with 1100 goodpecied objects. This Messeum has now developed into a melhidacipolilasity museum with various sections in the Archaelosly, Nemmaniantic, Anthropoly, Dietary, Zooley, Betary, Zooley, Betary, Zooley, London and Chemical Conservation and Research Alaboratory as supporting branches. In order to preserve art, cultural and natural horizing and impair museum detactions throughout the State of Tomil Miska, 200 direct measurem therein throughout the State of Tomil Miska, 200 direct measurem heavy between the State of Tomil Miska, 200 direct measurem therein throughout the State of Tomil Miska, 200 direct measurem therein throughout the State of Tomil Miska, 200 direct measurem throughout the State of Tomil Miska, 200 direct measurem throughout the State of Tomil Miska, 200 direct measurem throughout the State of Tomil Miska, 200 direct measurem throughout the State of Tomil Miska, 200 direct measurem throughout the State of Tomil Miska, 200 direct measurem throughout the State of Tomil Miska, 200 direct measurem throughout the State of Tomil Miska, 200 direct measurem.

Government Museum, Chennai functions from 9.30 a.m to 5.00 p.m on all working days except Fridays and National Holidays.

This Museum's Journal includes a number of articles and information about the activities of the museums under the Department of Museums from October 2001 to March 2002. The district museums are functioning on all days from 9.30

- am to 5.00 pm except Fridays, second Saturdays and National Holidays at the following places:

 1. Government Museum, Thirusokarnam, Pudukkottai.
 - Government Museum, Thirugokarnam, Pudukkottai-622 002. Ph: 04322-22247
 - 2. Government Museum, Navalar Salai, Salem-636 001
 - Government Museum, Gandhi Museum Cumpus, Madurai-625 020. Ph: 0452-650298
 - Government Museum, Rani Mangammal Hall, Tiruchirapalli- 620 002. Ph. 0431- 708809

- Government Museum, Municipal Office Complex, Erode-638 001.
- Government Museum, Fort, Vellore-632 004
 Government Museum, Government Hospital Road,
- Cuddalore-607 001
- Government Museum, Bali House, 70, Mysore Road, Udhazamandalam-643 001
- 9. Government Museum, Kattur, Coimbatore-641 009
- 10. Government Museum, Gandhi Memorial Road,
 - Kanyakumari-622 702 11. Government Museum, St. Mark's Road,
 - Samathanapuram, Palayamkottai, Tirunelveli-627 002
- Government Museum, Near Apsara Theatre, Krishanagiri-635 001
- Government Museum, Foot of the Hill, Palani-624 601
 Government Museum, Weekly Market Road,
- Sivagangai-630 561

 15. Government Museum, A/M Thiagarajaswami Temple,
 - Tiruvarur-610 002.

 16. Government Museum, 35. First Line Beach,
- Nagapattinam-611 001
- Government Museum, 117, Munusamy Avenue, Kanchipuram-636 501
- Government Museum, Asanammal Buildings, Head Post Office Road, Ramansthapuram-623 501
 Government Museum, Municipal Commercial Complex
- Government Museum, Municipal Commercial Complex, Karur-639 001
- Karur-639 001
 20. Government Museum, T.T Road, Virudhunasar-626001.

SPECIAL FEATURES

Honorable Minister for Education, Dr.M. Thanbidurai inaugurated the International Seminar on Conservation of Stone Objects with Special

Reference to Limestone Objects on

18" Dec. 2001. He released the Journal of the Museum the Abstracts Book of the Seminar and Pamoblet on the Exhibition on

Conservation of Stone Objects. The Seminar was conducted in collaboration with the Nehru Trust for Indian Collections at the Victoria and Albert Moscom, and the Indian Association for the Study of Conservation of Cultural Property, New Delhi

Dr. Choodamani Nandagopal, Bangalore delivered International Women's Association (IWA) Endowment Lecture on 22 1 2002

Seventh Lawn Art Training was inaugurated by Tmt. Geetha Elaneovan. Chairman, Vellore Municipal Council 25.11.2001. Thiru, N. T. Shanmuram, M. P. distributed certificates to 115 trainces of Seventh Lawn Art Training on 17.2,2002. On the same day, Thire, K. Lakshminarayanan, Assistant Director of Museums inaugurated Photographic Exhibition.

Part II Schemes worth of Rs.62 lakhs for the schemes such as establishment of Rock and Cave Art Gallery, refurbishment of Costume Dolls and Civilisation Gallery in Children's Museum setting up of Storage of Bronze Antiquities, reprinting of old publications and publication of new books etc were sanctioned by the Government and works were completed.

IMPORTANT ADDITIONS

As Treasure-trove Finds

In Chennai:

2 gold chans (23-20 grams) and a gold suge of 4.5 or gold chans (23-20 grams) and a gold suge of 4.5 or gold chan (23-20 grams) from Fankarmengian things, Rodgett gold were D grams) from Thinnauer Village, Madamenkan tolks, Cakenghama Sturrer, 'a mill sleve had, Sobera anders, 2.4 or mill sleve had, Sobera anders, 2.4 or mill sleve had, Sobera anders, 2.4 or mill sleve had, Sobera and Sobera anders, 2.4 or mill sleve had been seen to 30 km, from Formanders (1,7-41 grams) and gold greec (3.60 grams) from Portranspelayer with "greece" (3.60 grams) from Portranspelayer (3.60 grams) fr

43 Indo British old star pagoda gold coins, an ingot (gold) and a copper container from Ulbukkottai taluk, Thiravellur district; 2 Indo British, Victoria silver coins from Naripalli village, Harur Taluk, Dharmapori district; 24 Raja Raja Chola copper coins, from Iltramangalam village, Lulkudi stalk, Trichi district were received as treasure-trove objects and added to the collection of Numismatic section.

In Districts

In Distri

A cannon (length 240 cm, diameter 45 cm, weight, 1850 (kgs.), received from Tahisldar, Tiruchengodu as treasure-trove object and added to the collection

Durga (Stone sculpture) from Vaigai riverbed. Madurai (about 13th to 14th Century AD Height: 45 cm); Surya (Bronze) from Therar, Madurai North (about 16" to 17" Century AD Height: 12 cm): broken skull of an elephant (about 1000 years old) from Kandamanur, Andinatti taluk. Theni district were received





and added to the collection. Tiruchirapalli

Two sculptures of Brahma, a sculpture of Devi and a fragment of a Naga sculpture were unearthed near a drainage canal. in North Andal street, while the City Compration workers expanded the canal. These sculptures were later brought to the museum by the orders of the District Collector and added to the collection.

Erode

A burial urn from Bethampalayam, Perundurai taluk, Erode district was received as treasure-trove object and added to the collection

Vellore

One Bhairava stone sculpture as treasure-trove from Karsamangalam village, Katpadi taluk, Vellore district.

Cuddalore

A Lakshmi Narayana bronze image (Height 18cm, Weight 2.390 Kg belonging to 17th Century AD) from Uppu vellore village; an Anandhathandava Nataraja bronze image (Height 113 cm. Weight, 92 Kg belongs to 12th Century AD) from Chidambaram Tashildar; a Peedam (7cm x 14cm, Weight, 2.360 kg) and a Thrawari (Height 59 cm. Weight 4.500 Kg) from Rasakuppam, Samathuvapuram, Cuddalore taluk were received as treasure-trove objects and added to the collection

Kanchinuram

A bronze idol of Sri Lakshmi Narasimha (Height 56 cm. weight 70 Kg) found near Kottivakkam in Tambaram taluk was received as treasure-trove object from Tambaram Tabsildar on 28 3 2002 and added to the collection

Kanyakumari

Stone sculptures of Sata stone (Height, 90 cm) was received as treasure-trove obsect from Puliyoorkurichi village. Kalkulam. Kanyakumari district. Bronze idols of Appar (18th Century AD), a piece of hand (16th Century AD), Rishi (16th Century AD, Weight 30.5 Kg.), a

Tienvarue

Ardhanarisvara (about 25 years, Weight. 2.700 kg.) and a Sivalingam (about Weight 1.250 kg.) from Tahsıldar, Mannargudi, Thiruvarur district; a Nataraja (Weight, 189 kg. Height (20 cm), a Devi (Weight 120 kg Height 115 cm). Amman (Weight 35 kg, Height 82 cm), Manikkayashaka (Weight 35 kg, Height 82 cm). Thirngnanasambandha (Weight 34 kg Height, 56.5 cm and 8 metal objects (All bronzes and metal objects belonging to 12th Century AD) from Tahsildar, Kumbakonam. Thaniavur district were received as treasure-trove objects and added to the collection Virudhunagar

A copper ring with a bull figured seal was received from Tabsildar, Rajanalayam taluk as treasure-trove object and added to the collection

Through Field Collections and Gifts

In Chennai

Long-leaged Buzzard (Buteo rufinus) collected from the Museum camous (Zoology Section); about fifty vascular plants were collected and preserved dry (Botany Section): Under Part II scheme of 2001-2002 five new computers and printers have been ourchased and distributed to the following District Museums Salem. Madurai, Trichy, Cuddalore and Erode under Part II scheme of 2001-2002 new Digital Camera and a new Digital (Design and Display Section): The book entitled, "Manual of Curatorship" procured from the British Council, Chenna during December 2001 and other books transferred from the Commissioner of Museums during January 2002 added to the total stock of library book (Education Section): Sri Lunka's one currency note Rs.200/- from the Superintendent of the Central Jail. Madurai was received as unclaimed property and 30 First Day covers, 30 information sheets and 35 mints stamps from the Post Master, Anna Road Post Office, Chennai-2 as gift (Numismatic Section) were received and added to the collection

In Districts:

Madaral

A Koel from the museum campus was collected and stuffed as field collection and 29 First Day Covers and 28 Brochures from the Philatelic Bureau, Madurai, were received as eift and added to the collection

Thiruchiranalli Thiru K.V.Jeevanandham of Stirangam found two stone

sculptures of Devi, when he got down into the river Convery for taking a hath and brought them to the museum. Currency notes of Sri Lanka one each in the denominations of Rs. 100/-. Rs. 50/and Rs.20/- and two in the denomination of Rs.10/- from Thiru K Mururesan of Vannaranettai in Puthur of Truchranalli, samples of rocks and minerals from Thiru M.Sundararai of Thillainagar; a broken niece of a fossil-ammonite from Thire. M.Nazar of Koonibazaar of Bheemunagar; 34 First-day covers, mint stamps and folders from the Senior Post-master of Trinchiranalli Head Post Office were received and added to the collection

Vellore

36 First-day covers of Indian Postal Department as gift and a Parsyanutha metal image of modern cast as unclaimed property from Sengalikuppam village, Vanivambadı taluk, were received and added to the collection

Herbana of 10 medicinal elants collected as field collection and 12 First-day covers, 12 brochures and 20 stamps received as eift from Senior Post Master, Coimbatore were added to the collection

Udhacamandalam

3 Chola coins, 2 British coins, a 25 paise nickel coin (imprinted Raia head in the obverse and tiger on the reverse) from N. Soundrapandian as gift and 5 books through purchase

were added to the museum collection

Coimbatore

Herbaria of 20 medicinal plants were collected as field collection and added to the collection: 15 First day covers 15 brochures and 40 stamps were received as gift from Senior Post

Master Combatore and added to the collection

Kanyakumari

Small size chameleon from seashore area, two paintings of Raia Rayi Varma viz Milk Maid, 37x44.1 cm. Sakunthala 208x135 cm from Chitra Art Gallery, Trivandrum; Photographs of Travancore Kines from Trivandrum collected as eift and 6 First day covers; mint stamps and folders from Senior Post Master, Madurai: S Travancore coins (conv.) from Thiru. Karthikevan. Nagercoil were received as gift were added to the collection.

Krishnaciri

A copper plate (Chola period) with 27.5 cm height and breadth 18.5 cm has been received and added to the collection of this museum. The flowers of Aloevera (an important medicinal herb) have been colour preserved (wet) and added to the Botanical collection.

Poloni

One bundle of palm-leaf manuscripts and a stylus from Mr.R.M. Veerappan, Palani; 57 First-day covers and brochures from Indian Postal Department; two numbers of hundred years old clay pots and a tiny metal jar from Siddha doctor, Mrs. K.M.Rajam, Palani and 3 paintings from Vela Arts, Palani were received as gift and added to the collection

Tiruvarur

Paper currencies of two runors of Bangaladesh and twenty thousand rupees of Indonesia were received as gift from R Packirisamy Tirmyanir and added to the collection

Sivagangai

Bronze icons of Vishnu, Sri Devi and Bhu Devi of Adhivur, Ramanathapuram district, Amman icon of Paramakudı; bronze Durgai Amman icon. Kumkum bowl, broken bronze nieces and fire bowl of Panichakudi, Thiruvadanai taluk, Ramanathanuram district were brought from Government Museum Ramanathanuram for security measures. A Sri Lanka 10 runee paper currency and 3 foreign coins from Ms. G.Sudha, Sivaraneai: Gramanhone box with sneaker (75 years old) from V.Ilamparithi, Jameendhar Patti, Thiruppattur taluk; 2 foreign coins from M.S. Ibrahim, Nehru Bazaar, Sivagangai; a 2 rupce paper currency of Malaysia from N. Ramesh, Duraiyur post, Tirachiranalli district: 14 foreign coins and 7 Malaysian currences from Lion S. Vengat Raman, Natham Lions Club, 16 Indian coins and 7 old Indian coins (With Leaders' impressions) from Mr. Gurumoorthy and T.T.K. Raiendran, Natham Lions Club, Natham, Dindigul district; 29 First-day covers, 28 brochures from Philatelic Bureau, Madurai: a foreign coin from P. Mangala Nathan, Kirampuli, Siyagangai district; a paper currency of Malaysia from T.Abdul Hakim, Sivagangai; a foreign and added to the collection.

Kanchipuram Fifteen foreign stamps and three Canadian coins were received as gift from Selvi Kavitha of Kanchipuram and added to the collection

Virudhunagar

Two megalithic period black and red ware notteries of Seebam (Dharmapuri district) from Mr. R. Balachandran. Thirudhangal; 30 foreign coins from Mr.K.C. Jayachandran, Virudhunagar: 14 Indian coins from Smt. N. Kamaladevi. Virudhunagar were received as gift and added to the collection.

VIP Visits

In Chennai:

The Honorable Minister for Culture, Mr. Makvana, Government of Gujarat was taken round the galleries and the Chemical Conservation and Research Laboratory of the Museum on 5.1.2002.

Honorable Minister for Education, Dr. M. Thambidurar visited the museum and discussed various issues of activities in the Museum on 7.1.2002

Yang Linhai, Chinese Cultural Chancellor from New Delhi was taken round the Museum galleries on 31,1,2002.

The Director of the National Rail Museum, Thiru Rajesh Agrawal visited the Museum to study the 'Dichroic Halogen Lighting and the Fibre Optic Lighting at the Museum on 12 3 2002

17.3.2002.

Dr. Robert N. Paddle, Senior Lecturer, School of Psychology, Australia Catholic University, Australia visited the Zoology galleries to study the marsupilis in the Collection of Government

In Districts:

Museum, Chennai (Zoology Section).

Hon'ble Minister for Forest and Environment, Thiru S.S.Thirunavukkarasu visited the Government Museum, Kanchipuram along with other dignitaries on 22.12.2001.

S.C. Kuntia, Secretary to Government, Finance Department, Government of Karnataka, Bangalore paid a visit to the Government Museum, Madurai on 23.10.2001

Dr. Deborah A. Swallow, Executive Trustee of the Nehru Trust for the Indian Collections at the Victoria & Albert Museum, London with Thiru R.L. Piplani; Secretary, Nehru Trust, Teenmerthi House, New Delhi paid a visit to the Government Museum Pudnikotation of 24 12 2001

- Dr. Deborah A. Swallow, Executive Trustee of the Nehru trust for the Indian Collections, Victoria & Albert Museum, London paid a visit to the Government Museum, Madurai on 29.12.2001.
- Dr Deborah A. Swallow, Executive Trustee of the Nebru Trust for the Indian Collections at the Victoria & Albert Mureum, London with Thirus R.L. Piplani. Secretary, Nebru Trust, Teenmurth House, New Delhi pad a visit to the Government Museum, Tiruchirapalli and went round the galleries on 29.12.2001.
- Thiru. Bernard Alt, U.S Consul General, Chennai paid a visit to the Government Museum, Vellore on 1.11.2001.

 Thiru, K.R.M. Kishore Kumar, LPS., Chief Vicilance and
- Security Officer, Tirumala Turupati Devasthanam, Tirupati paid a visit to the Government Museum, Vellore on 15.11.2001.

 Mrs. Geetha Elangovan, Chairman, Vellore Municipal
- Council paid a visit to the Government Museum, Vellore on 25.11.2001.

 Thirn N.T. Shanmusam, M.P. Vellore noid a visit to the
- Government Museum, Vellore on 17.12.2001.

 Dr. M. Rajendran, D.R.O. / Special Officer, Kallakurichi Co-Operative Sugars pand a visit to the Government Museum.
- Operative Sugars pand a visit to the Government Museum, Cuddalore on 13:12.2001.

 Thirm. Sudeep Jain, 1.A.S, the District Collector, Nasanattinam, paid a visit to the Government Museum.
- Nagapattinam on 30.03.2002.

 Mr. Davidsan Devashagayam, I.P.S., Superintendent of Police, Cuddalore district visited the Government Museum
- Thrus S.C. Kuntia, I.A.S., Finance Secretary of Kamataka visited the Government Museum, Kanyakumari on 24.10.2001

The Erode Municipality Chairman, Thiru.M.Subramanian naid a visit to the Frede Museum on 26-12-2001

Thiru R. Kasinathan, I.A.S., Commissioner of Art and Culture paid a visit to the Government Museum, Udagamandalam on 28 1 2002

The Nilgiris District Collector, Tmt. Supriva Sahu, I.A.S., paid a visit to the Government Museum, Udagamandalam on 4.3.2002 and 5.4.2002.

Research Facilities and Loan of Objects

Research facilities were rendered to the following persons for their research:

In Chennai:

Guidance was provided for three research scholars to pursue the research in conservation under the guidance of Dr. V. Jevarai, Curator, Chemical Conservation and Research Laboratory; Information was given to two students form the Department of Journalism University of Madras: Information on Conservation of Paintings was given to Mr. Siwia Moro from Italy (Chemical Conservation and Research Laboratory): Research facilities were afforded to Thiru. Subbaravalu. I.F.S. retired Chief Conservator of Forests reparding the "Endangered Plants." (Botany Section), during January, February and March, 2002. Research facilities were rendered to Thiru Jyothi Prakasam, Advocate, Chennai on the "South Indian Megalithic Sites" and to Selvi. Theresa, final year student of M.A., Social work from School of Social Work on "Tribal Culture" (Education Section): research facilities were rendered to the II year Architecture students of Satvabama Envineering College for their project work (Contemporary Art Gallery).

During November, 2001 a set of replicas of antioxities of 'Indus Valley Civilisation' from (Education Section) and a display board with electroplated coins, colour photographs and charts from (Numismatic Section) has loaned for the 'Special Exhibition' organised by the authority of M/s. Jayagopal Gardoia National Higher Secondary School, Tambaram, Loan objects were given

from all the sections to A.M.M. Primary School, Sowcarpet (Botany Section).

In Districts:

Tiruchiranalli Research assistance was extended to Thiru Subramaniam of Thaniavar ('The Unnoticed palaces of Nayaks in Tiruchtrappalli'); Thiru I. Kaiamohideen, a Professor of Jamal Mohammed College ('Rockfort and Its Surroundings') by utilizing the museum resources; Selvi. V.Rani Vijayachandrika, a student of Seethalakshmi Ramasamy College ('Origin And History of

Pudukkottai Thondaiman Dynasty). St. Josephs Apelo-Indian Girls Higher Secondary School conducted an exhibition. SENTEX-2001 as a special event of its Centenary Celebrations for which stone sculptures, fossils and a pulverizer were lent to show in display the archaic basis, art and culture of this district

Cuddalore

Research facilities were rendered to Thiru M. Javarai , II M.A., history student of Annamalai University to pursue his research on "Monuments of Cuddalore Taluk"; Selvi. K. Bhuvanesvari, M.Phil scholar, Government Arts College, Virudhachalam ("Panruti Vattara Ur Peivanzal"); Selvi. Revathi. M Phil Scholar of Department of Ancient History and Archaeology, Madras University, ("Thirupadiripuliyer Temple-A Study") by providing study materials.

Research facilities were rendered to Dr. S. Rasu (Palm-leaf manuscriets). Thiru, Raiib Mukherice (south Indian Tribes) and Thirt Prokash (Coins)

Research facilities were rendered to Thiru. Balu (Medicinal plants) and Thiru. Balaii (History of Coimbatore district) Paleni

Research facilities were rendered to the following persons to their research work: Mr. Kalimuthu, M.Phil., Research Studeni, Madurai Kamatraj University (The Goverament Museum, Palani); Mr. Artistole, M. Phil., research student, Arulmigu Palaniandavar College, Palani, (Palani-Tourism Destination), Mr. Tamil Selvi, Reader, Arulmigu Palaniandavar Women's College, Palani (Reference books provided), Mrs. G.Gowsalya Devi, M.Phil., research student, Palani (Reference Books provided) Mrs. G.Gowsalya Devi, M.Phil., research student, Palani (Reference Books provided)

Krishnagiri

Petryar University research student, Mr. Ganesh, Annamalai University research student, Mr. Sakthivel and Madurai Kamarajar University research student, Mr. Priya were guided to do research on the historical aspects of Dharmapari district and about Hero Stones. Hero Strings and Stone inscrinistics.

Udagamandalam

Research facilities were rendered to The Nilgiris district Epigraphist, Dr. Karasanandun (Important features of iconometry of the displayed brozzes). Dr. A. Sundaran, Professor (Retd.), Karnataka University, Dharware (The rock art paintings); Mr. M. Ravichandran (Archeological studles).

Kanyakumari

Research facilities were rendered to Thiru. Karan, Madarai (Siva, Workshop in Kanyakumari district), Thiru. Keiser Kanyakumari (Study on Muttom), Selvi. Nivethita, Nagercoil (Tourism Management) and Thiru. Vaithyanathan Nagercoil (Vattakottai).

Sivagangai

Research facilities were rendered to Mr. Goutham Ashokumar. Department of History, University of Madural, ("Sivaganga Museum"); Mrs. Laxmi, M.Phil scholar Department of History, University of Madural, ("Temples of Sivagangai district").

Training Courses, Competitions and Celebrations

The following training programmes, courses, competitions and celebrations were conducted at the Government Museum, Chennai and district museums:

14.10.2001 One-day training course on 'Siddha's Philosophy' for Traditional Siddha Doctors - Training given by Siddha Doctor, S.Krishnamoorthy, Dharapuram - Government Museum, Palani.

15.10.2001- Batik Art Training 20.10.2001 Camp - twenty ladies participated-Government Museum, Madurai

October 2001 First year B.A. History students of Stella Mari's College were given training on Social Awareness Programme on sectional activities and methods of display in the galleries including lighting and labeling: Selvi. Apama Ganquathy. Assistant Custors of Archaeology Section was given induction training on the sectional works and gallery objects in all the

sections and Children's Museum of the Government
Museum, Chennat

30.10.2001 An Essay Competition for 200 school and college
students in connection with Wild Life Week-2001

celebrations. Prizes were awarded to the winners -Government Museum, Padukkottai.

07.11.2001 The project work on Conservation of Art Objects

Conservation of Art Objects was begun for 7 students from the College of Arts and Crafts, Chennai Chemical Conservation and Research

13.11.2001 Oratorial, Painting and Music competitions for 500 college and school students in connection with Children's Day celebrations, Prizes were awarded to

25.11.2001Lawn Art Training Programme for 115 students of 17.02.2002

Sundays - Vellore Government Museum and Vellore District Arist Association.

26.11.2001- Tanjavar Painting Training 05.12.2001 Camp-Twenty persons participated - Government Museum, Madurai.

05.12.2001 Conservation of Stone Objects-Special Training for 10.12.2001 24 students of Madras Christian College, Chennai-600 059 - Chemical Conservation and Research Laboratary.

07.12.2001- "Archaeology" - Training given to the III year B.A. 31.12.2001 History students of C.N.College, Erode-Government Museum Frede

Government Museum, Erode.

24.12.2001 The project work on Conservation of Archaeological Objects" to two students from the

History Department of Meenakshi College, Chennal-600 024 - Chemical Conservation and Research Laboratory. 27.12.2001 Peem Competions-2001 for college students of

Thiruvarur - Prof.R.Shanmugavalli, Department of Tamil, R.A.C. College, Thiruvaur distributed the prizes to the winners - Government Museum, Thiruvarur.

29.12.2001 District level painting competition for school children - conducted in the Bishop Heber Higher Secondary School, Pathur - 600 students from 60 different schools of the district participated. On 29th December 2001 the District Collector, Dr.K Manavasan, L.A.S., distributed the prizes and cartificates to the winners on a function held in the

The Anna Science Centre - Planetarium had also arranged for a painting competition for the school children and the Curator was entrusted with the honour of selecting the paintings for the prizes. Government Museum Truschiranalis

07.01.2002 Crash course in artificial flower making-Government Museum, Madurai. Conducted from 7-1-2002 to 10-1-2002 at the museum campus. About twenty ladies participated in this course.

20.01 2002- Training on preservation of paintings given to the 27.01.2002 artists in Balada Tribal Museum - Government Museum, Udagamandalam in collaboration with Balada Tribal Museum and Tamilnadu Ovid

Nunkalaikuzhu.
26.01.2002 Republic Day Celebrations - Government Museum

Erode. 06.02.2002 - Training course on preservation of stuffed animals

08.02.2002 - 30 B.Sc. students of Sri Paramakalyani College participated - Zoology Section, Government Museum, Chennai

students from different colleges in and around Madorni participated -Govern ment

Museum, Madurai in collaboration with the State Archaeology Department.

13.03.2002- Short Term Museology Training to 50 college

15.03.2002 students - Government Museum, Pudukkottaj. Seminars, Workshops and Camps

11.03.2002 - Training Camp in 15.03.2002 - Epigraphy - 22

The Department of Museums conducted the following semanars, workshops and camps in Chennai and districts:

18.12.2001 - "International seminar on Conservation of Stone 21.12.2001 Objects with Special Reference to Limestone Objects" in connection with 150° Annaversary Celebrations at the Museum Theatre - Government Museum. Chennai.

22.03.2001 "Mooligai Arangam" Programme - organised in Collaboration with Dharapuram Siddha Doctor's Association - Government Museum, Palani.

23.03.2001 Seminar on "Herbal Plants" and a Free Siddha Medical Camp - organised in collaboration with Dharapuram Siddha Doctors Association-Government Museum, Palani.

Monthly Siddha Camp and Yoga Demonstration were organised in Government Museum, Chennai (Botany Section).

28-09-2001 "Easily Available Medicinal Plants and Their Usefulness" - by Dr. Sivn Thirunavukarasu M.D. (S) General Yoga - by Dr. (Tmt) K.Rajeswari, M.D.(S)

30-10-2001 "Bronchial Asthma and Its Treatment in Unani Medicine" by Dr. Shahkshiul Hameed, M.D. (U) Yoga - by Dr. Mohamed Musthafa, M.D. (S) 27-11-2001 "Herbal Medicine for Joint Pain"

27-11-2001 "Herbal Medicine for Joint Pain"
 by Dr. Kunrathur Ramamurthy, General Yoga
 by Dr. M. Logamanian, M.D. (S)

27-12-2001 "Marma Treatment in Ayurveda" - by Dr. M. Radhika, M.D. (A) Yoga - by Dr. M. Logamanian, M.D. (S)

27-01-2002 "Old Age Disease and Siddha Medicine" by Dr. G. Ganapathy, M.D. (S), General Yoga

- Dr. M. Mohamed Musthafa, M.D. (S)

26-02-2002 "Food is Medicine; Medicine is Food"
- by Dr. Kandhanolayesam, M.D. (S) Yosa

- Dr. M. Logamanian, M.D. (S)

26-03-2002 "Hygiene"-By Dr. Kandhapalavesam, M.D. (S),
Yoga on Hypertension and Obesity
- by Dr. M. Mohamed Musthafa. M.D. (S)

Presentation of Paper in Seminars / Workshops

In Chennai:

- Dr. R. Kannan. Ph.D., I.A.S., Commissioner of Museums
- 06.12.2001 Stone Conservation Paper presented in the Conservation workshop organised jointly by the INTACH, Chennai, Max Muller Bhavan, Chennai and Germany Returness Association at 1.1.T.
- 20.12.2001 Overview of the Legislative Framework for the Description of Control Property and Suggestions for Improving Implementation - Paper presented in the International Seminar on Conservation of Stone Objects with Special Reference to Limestone Objects at Government Museum, Chemai.
- 08.03.2002 Use of Power Tools in Conservation Paper presented with Power Point Projection in the Workshop on Use of Power Tools in the Restoration of Monuments conducted by the I.I.T. Chennai Chapter, Chennai.

Thiru. K. Lakshminarayanan,

Chennai.

Chennai

Assistant Director, Government Museum, Chennai.

20.12.2001 Nayaks' Sculptures in Virudunagar District - Paper presented in the International Seminar on Conservation of Stone Objects wit Special Reference to Limestone Objects at Government Museum. Chennai.

Dr. V. Jeyaraj,

Curator, Chemical Conservation and Research Laboratory

05.12.2001 Conservation of Stone Objects - Paper presented in the Seminar organized by the German Consul Office at the Indian Institute of Technology.

2 Traditional and Modern Poulticing Methods in the Removal of Accretions from Stone Sculpture -Paper presented in the "International Seminar on Conservation of Stone Objects with Special Reference to Limestone Objects" at Government Museum, Chennai. 01.03.2002 Museum Professionalism Leads to Success -

1. The Status of Preservation of Amaravati Limestone Sculptures in the Government Museum.

19.12.2001

Chennai

National Conference of the Museum Association of India at the Regional Museum of Natural History, Bhonal

23.2.2002 1.Delivered the Key note Address on the Conservation of Stone Monuments at the National Seminar on Development of Tourism and Preservation of the Jain Monuments at the Twin Hills of Bhuvaneshwar, Orissa

2. Conservation of the Twin Jain Monuments Khandagiri and Udhayagiri - Papers presented.

Tirumathi. R. Shanthi. Curator, Numismatic Section, Government Museum, Chennai

11 1 2002 "A Rare Copper Coin of the Pallava" - paper presented in the seminar organised by the South

Indian Numismatic Society at Hydrabad. Dr. C. Maheshwaran.

Curator, Education Section Government Museum, Chennal

December - 'Anthropology: an Introduction"- Lecture Demonstration and participated as a resource

2001 person in the 'Training Course of Paleography' conducted by the Department of Archaeology,

20.12.2001 'Microbial Bio-deterioration of Stone Sculptures

in the Bandinur National Park* - Paper presented in the "International Seminar on Conservation of Stone Objects with Special Reference to Limestone Objects" at the Government Museum, Chennai in connection with it's 150th year celebrations - also acted as the 'Raporteur' in the above "International Seminar" on 20 12 2001

Thirumathi, M. N. Pushna.

Curator, Botany Section, Government Museum, Chennai

20.12.2001 "Bio-deterioration of Stone objects." - Paper presented in the "International seminar on Conservation of Stone Objects with Special Reference to Limestone Objects" at the Government Museum, Chennai in connection with its 150th year celebrations.

In Districts:

Dr. J. Raja Mohamed, Curator, Government Museum, Pudukkottai,

"Medieval Monuments in Pudukkottsi and Status 20 12 2001 of Granite"- paper presented in the "International Seminar on Conservation of Stone Objects with Special Reference to Limestone Objects" at Government Museum, Chennai in connection with

its 150th year celebrations.

Thiru M. Gandbl. 19 12 2001

Curator, Government Museum, Vellore "Conservation of Stone Objects in the Government

Museum. Vellore"- paper presented in the "International Seminar on Conservation of Stone Objects with Special Reference to Limestone Objects" at Government Museum, Chennai in connection with its 150th year celebrations.

06.01.2002. "Prehistoric Objects in the Government Museum, Vellore" - paper presented in the Seminar organised by the Commissioner of Archives and Historical Research Centre, Chennai and the Post Graduate Department of History, Islamiah College, Vaniyambadi on 'Socio-Economic History of Vellore District'

Thiru N. Soundrapandian,

Thiru. P. Sam Sathiaraj.

Curator, Government Museum, Udagamandalam

19 10.2001 "Excavations in Tamiliadu" - paper presented in the Archaeology conference held at the Government Arts College, Udagamandalam

20.12.2001 "The Role of Curator in Preserving Stone Research Scaptures", paper presented in the "Internation of Seminar on Conservation of Stone Objects with Special Reference to Limestone Objects with Government Museum, Chemai in connection with its 150th ware enablantions.

Curator, Government Museum, Madurai

20.12.2001 "Problems Related to Transport and Display of Stone Sculptures in the District Museums in Tamilnadu" - paper presented in the "International Seminar on Conservation of Stone Objects with Special Reference to Limestone Objects" at the Government Museum, Chemasi in connection with it's 150th year celebrations.

25.02.2002. "Two Unique Memorial Stones in the Collection of 27.02.2002 the Government Museum, Madurai" - paper presented in the South Indian History Congress held at Trivandrum, Kerala

Participation in Workshops, Expert Committees, Seminars etc...

Dr. V. Jeyaraj, Curator, Chemical Conservation and Research Laboratory

18.12.2001- Organized the International Seminar on 21.12.2001 Conservation of Stone Objects with Special

Reference to Limestone Objects".

7-3-2002 Conducted the Executive Committee Meeting of the Indian Association for the Study of Conservation of Cultural Property at New Delhi.

Thiru P. Jawahar,

Curator, Zoology Section, Government Museum, Chennai 18.3.2002 Participated in the Workshop on "Museum

21.3.2002 Education" organised by the Salar Jung Museum, Hydrabad.

Tirumathi. R. Shanthi, Curator, Numismatic Section, Government Museum, Chennai

10.1.2002 - Attended the XI Annual Conference conducted by

11.1.2002 the South Indian Numismatic Society at Hydrabad. Thiru, J.R. Asokan.

Curator, Design and Display Section, Government Museum, Chennai 08.03.2002 - Curator participated in the training on "Use of

09.03.2002 Power Tools in the Restoration Monuments"

28.01.2002- Curator participated in the workshop on "Museum

01.02.2002 Management" in Jodhpur conducted by the Megrangarh Museum, INTACH and the British Council.

Dr. C. Maheshwaran, Curator, Education Section Government Museum, Chennai

25.01.2002 Perticipated in the "Museum Management 03.02.2002 Workshop" conducted at Jodhpur Mehrangarh Museum under the joint auspices of Jodhpur Mehrangarh Museum Trust, INTACH and the

Mehrangarh Museum Trust, INTACH and the British Council, New Delha. 01.11.2001 - Purticipated in the 'Expert Committee' constituted 03.11.2001 for setting up of the Rock Art Gallery at the

Government Museum, Chennai under the leadership of the Commissioner of Museums and undertaken tour to Bhonal, Agra and New Delhi 04.03.2002. Acted as a Lipison Officer for the NESC Folk

13 03 2002 Festival conducted at the Museum. Thirumathi, M. N. Pushpa.

Curator, Botany Section, Government Museum, Chennai

18 3 2002 - Participated in the Workshop on "Museum 21 2 2002 Education" conducted by the Salar Jung Museum, Hyderabad

In District:

Dr. J. Raja Mohamed.

Curator, Government Museum, Pudukkottai.

05.12.2001- Participated in the seminar on "Restoration 07.12.2001. Conservation of Granite" organised jointly by the INTACH, Chennai, Max Mueller Bhavan, Chennai and Germany Returnees Association at LLT. Channai

Thiru. M. Gandhi. Curator, Government Museum, Vellore

5.12.2001 - Attended Conservation Workshop organised jointly by the INTACH, Chennai, Max Mueller Bhavan, 7.12.2001 Chennal and Germany Returnees Association at LIT Channel

18.12.2001- Participated in the "International seminar on 20.12.2001 Conservation of Stone Objects with Special Reference to Limestone Objects" at Chennal Government Museum in connection with 150th

year celebrations. 25.01.2002- Participated in a Workshop on Museum

01.02.2002 Management organised by the Mehrangarh Museum, Jodhour and the British Council, at Jodhpur. He showed stides of the Government Museum, Vellore to the participants.

01.03.2002 - Participated in the Annual Conference of Museums 03.03.2002 - Association of India at Bhopal.

12.12.2001 Participated Assembly Assurance Committee

18.3.2002 Participated in the Advisory Committee meeting at the Vellore District Collectorate regarding antiquities collected by Thirs. R. Sundaram of Gudivatham.

Thiru N. Soundrapandian,

Curator, Government Museum, Udagamandalam

15.11.2001 Participated in the viva-voice conducted by sanshiar University for the award of Ph.D. degree to Mr. A. Perumal for his thesis "Endeavours of the Protestant Missionaries on the Nilgiris 1826– 1947" in Government Arts College, Litharamandaler

Thiru. P. Sam Sathiaraj, Curator, Government Museum, Madurai

05.12.2002 - Participated in the Conservation Seminar 06.12.2002 organized by the Max Mueller Bhavan, Chennai at the 1.1.T. Chennai

28.01.2002- Participated in the Workshop on "Museum 01.02.2002 Training" conducted under the auspices of the British Council, New Delhi at the Mehrangarh Museum Jodhur, Rainsthou

Thiru. P. Rajamohan, Curator, Government Museum, Tiruchirappalli

10.11.2001 Participated in the meeting organized by the District Collector for the promotion of art and culture through the district office functioning for that purpose. 05.12.2001- Participated in the seminar on the Restoration and 07.12.2001 Conservation of Stone conducted in Chennai by the Max Mueller Bhavan at LLT, Chennai.

Curator, Government Museum, Nagapattinam

05.12.2001- Participated in the seminar on Restoration and 07.12.2001 Conservation conducted in Chennai by the Max Mueller Bhavan at LLT.Chennai

Thiru. T. Packirisamy,

Curator, Government Museum, Sivagangai

22-01-2002 Participated in the seminar on "Pollution - a Death Knell to the Environment" at the Department of Zoology, Rajah Doraisingam Government Arts College, Sivagangai.

Popular Lectures and Special Lectures

26.1.2002 Personality and Development Oriented Series of Coins Released in the Democratic India' - lecture delivered by Thiru. M. Kandsamy a. renowned numismatist of the city - Government Museum, Tireshirapeallis.

03.02.2002 "Ilakkiyathil Thagadur" - lecture delivered by Thiru Sundarraman, Vice President - Tamil Sagam - Government Maseum, Krishasgiri 10.03.2002 "Samudaaya Faarraiyii Magaleer" - lecture delivered by Tut. Priva Member, Government

Krishnagiri.

Special lectures were organised in the Archaeology Training
Course for C.N. College – Erode (07.12.2001) -

Course for C.N. College - Brode (07.12.2001- 31.12.2001) Government Museum, Brode.

12.12.2001 'History of Coins' - Prof K.A.Thirugnana

sambandam, Founder, Kongu Numismatic Society, Erode.

Hospital, Krishnagiri - Government Museum,

13.12.2001 "Stone Inscriptions of Kongu Nadu" Dr K Arangasamy, Gobi

"Archaeological Importance of Erode District" 18 12 2001 Dr.S. Rasu. Founder Koneu Research Centre -

Special Lectures for the Trainees

The Curators of the Chennai and District Museums delivered the following Popular and Special Lectures:

In Chennai:

Thiru. K. Lakshminarayanan. Assistant Director Government Musuem Chennal

08.11.2001 South India under British Rai - Lecture to the seminar citizens of U.S.A. at Hotel Chola Sheraton.

06.12.2001 Sculptures and Bronzes in Chennii Musuem - to the Stone Conservation Workshop delegates at Governmen Musuem, Chennai,

Dr. V. Jeyaraj, Curator,

Chemical Conservation and Research Laboratory, Chennai

05.10.2001 Conservation of Museum Objects-55 Students from Sri Vasavi College, Bhayani along with practical work

12.10.2001 Lecture Demonstrations were provided to the participants of the training programme conducted by the State Institute of Archaeology, Art History, Conservation and Museology, Ernakulam.

- 1. Preventive Conservation
- 2. Curative Conservation 3. National and International Museums
- 4 Museum Architecture

13.10.2001 Lecture Demonstration to the trainees as above on Museum Environment, Museum Display

01.02.2002 The following lecturers were delivered to the students of the College of Architecture and Sculpturing, Mahabalipuram. 1 Preventive Conservation of Stone Sculptures

and Architecture 2. Conservation of Art Objects 16.02.2002 Conservation of Cultural Heritage of India-

Mahavidhyalaya, Mylapore. 06 03 2002

Material Science of Painting Materials - for the participants of the workshop on Conservation of Paintings at the National Museum, New Delhi,

Non-destructive Analysis of Pigments - for the Participants of the workshop on Conservation of Paintings at the National Museum, New Delhi.

Tmt.M.N.Pushpa. Curator Botany Section Government Musuem Chennai

"Museum and Botany Section - Preservation of Botanical Specimens"- lecture delivered in the "Citizenship Training

Programme" for 150 students at Teachers' Training College. Saidanet, Chennai In Districts:

Thiru M. Gandhi. Curator, Government Museum, Vellore

07 03 2002

Nov. 2001 Curator delivered a lecture to first year M.A. History students from Muthurangam Government Arts College, Vellore, at the Government Museum,

Vellore Lectures were delivered by the Curator to 70 students of ICCW, Gandhinagar, Vellore, on three

days. Lectured to 99 students of an Elementary School

students of Cholavaram, Vellore taluk. 20.03.2002

Lectured to 40 students of Elementary School. Kanne Thattu near Ambur

12.03.2002 Lectured to the teacher trainees of Government College of Education, Vellore -6

Thiru.P. Sam Sathiarai.

Curator, Government Museum, Madurai 07.03.2002 "Museum Movement in India" and "Conservation

and Care of Museum Objects" - in the Refresher Course conducted for the History Professors at the Madurai Kamarai University

08.03.2002 "Museology, Museum Movement and Preservation of Antiquities" at the Youth Welfare Department, Madurai Kamarai University for the students preparing for LA.S. Exam.

Thirumathi, R.D. Thulosi Brinda Curator, Government Museum, Krishnapiri

"Krishnagiri Hill - Rock Art Paintings" - Popular 10.3.2002

lecture delivered in the Government Museum. Krishnagiri. Thire, N. Sundararajan,

Curator, Government Museum, Cuddalore

20 II 2001 "Importance of Museums" lecture in the

34º Natioanal Library Week Celebrations held at District Central Library, Cuddalore, 19.12 2001 Students of Sacred Heart Teachers Training

Institute, Cuddalore brought to the Virataneswara Temple at Thiruvadigai and werer explained evolution of architecture from the Pallava to Modern period. held at Sacred Heart Teachers Training Institute.

25.02.2002 Presided over Social Science Department function Cuddalore, and gave a Special lecture about Cuddalore Museum and the Local History.

04.03,2002 "Cuddalore Government Museum and Its Functions" - lecture delivered at Annamalai University, History Department,

Thirn C. Govindarai. Curator, Government Museum, Virudhunagar

"Archaeology and Temple Architecture"- lecture 2.3.2002

delivered at Madurai Kamarai University

Thiru. J. Mullai Arasu,

Curator, Government Museum, Erode

10.12.2001 "Museology" - Jecture delivered in the Archaeology

Training Course for C.N. College students, Erode.

Radio Talks / Television Programmes

29.12.2001 "Special Exhibition on Coins" was telecast in Rai T.V.News - Government Museum, Kanchinuram

30.12.2001 Interview with Tmt. J.M.Gandhimathi about Treasure-trove gold coins from Perumancheri (Chevyar Taluk) and Thinnanur (Madhurantagam Taluk) was broadcast in 'Sun News' Telugu channel - Government Museum, Kanchipuram,

Renovations and Improvements to Museums / Galleries

Government Museum, Chennai

Archaeology Section

Work in the Museum website was completed Categorising art objects as AA (very rare) and their photographing digitally was done. List of bronzes for which holograms were necessary was prepared The art objects at Pudukkottai Government Museum were digitally photographed Racks were made to store the bronzes under the Part II scheme. Work regarding the International Seminar on Conservation of Stone Objects with Special Reference to Limestone Objects was done. Digital photographing of manuscripts from the Oriental Manuscripts Library, Chennai continued.

Zoology Section The following dry mounted specimens were renovated and displayed in Foreign Animals Gallery: Malayan Taper, Ostruch. Cassowary, Kangaroo, Armadillo, Opossum, and Raccoon,

New showcases on modern line have been installed and the Ostrich, Cassowary, Kangaroo, Apossum, Armadillo and Raccoon are displayed.

New diorama (12' Height x 10' Length) illustrating a Malayan Tapir was set up with vinyl printing backdrop of the suitable environment.

Numismatic Section

Rearranged the display of the plaster cast coins of Indo -British, Indo-Dutch and Indo-French in the Coins Gallery.

In the Philatelic Gallery, the special cover on "Exhibition

of South Indian Bronzes" was displayed.

The Curator continues the classification of unidentified

copper coins. Children's Museum

In the Physical Science Gallery, 3 electrical and 3 electronics gadgets were prepared, displayed and changed every month to explain the basic principles of electricity and electronics.

27 new showcases were fabricated, installed and organized display in the Costume Dolls Gallery and Civilisation Gallery.
2 new showcases and 24 wall paneling showcases were

fabricated and installed in the Technology Gallery's Science Corner.

Building repair works like changing the weathering tiles, brick works in the ventilators to prevent water leakage, changing the drain water pipes, relaying the platform slabs in the rear side and fencing the Children's Science park-play area with a staircase provision from the ramp way were carried out by the Public Works Department

Design and Display Section

Under Part II scheme of 2001-2002 a new gallery called Rock and Cave Art Gallery was established in the Contemporary Art Gallery II Floor, 90% of the work has been completed.

Design and Display Curator assisted other Curators in

loading AA (very rare) and objects in the computer in connection with computer documentation of museum objects.

Contemporary Art Gallery
The Rock and Cave Art Gallery was set up in the II Floor of
the Contemporary Art Gallery.

In Districts:

Budah bassai

Glazed tiles were laid in the Arts and Industries Galleries by the Public Works Department.

the Public Works Department.

Under the Part II scheme 2001-2002, improved lighting arrangements with dichroic halogen lamps, rewiring the whole building with additional fans and lights were ever necessary, were done within the budgetury provision of Rs. 1.5 lakhs.

Madurai

Three modern showcases of International Standards were made for the display of bronzes.

Tiruchirapalli With the financial outlay sunctioned under Part II schemes

of the annual plan for the year 2001-2002, the renovation work for Rs.2.16 lakhs, construction work of a toilet for visitors for Rs.95,0004-were undertaken by the respective wing of the Public Works Department.

Vellore

Backgrounds of fishes had been improved with painting clear varnish in the 'Fishes' showcase.

Kanyakumari

North Indian, sculptures were displayed. Terracottas of Aiyannar, horse, camel and dinosaur were displayed in the relevant galleries.

Erode

Under the Part II scheme 12 showcases were renovated.

Palani

Hundred years old clay pots and a tiny metal jar were displayed in the Gallery. Three paintings were displayed

Krishnagiri

Anthropology and archaeology show cases were renovated. The herostones in the Museum Sculpture - Park were cleaned and labels were written on the pedestals.

Three interactive working models were renaired and re-

displayed. Sivagangai

Exhibition:

Two new showcases were installed to display new addition...

In Channai and Districts

04 10 2001- Freedom Fighters Photographic Exhibition -

10.10.2001 Government Museum, Salem. 24 to 2001- 'One-man Show of the Batik Art Works by

31 10 2001 Mr. Abdul Rahim' - Government Museum, Madurai

26 11 2001- 'Special Exhibition on 28.11.2001 Coins' - 300 coins were exhibited - Government

Museum, Salem.

18.12.2001. In connection with the 150th year celebration of 31.12.2001 the Government Museum, Chennai an Exhibition on 'Conservation of Stone Objects' was conducted and the A.S.L. G.S.I. of the Madras circle and Gem Granites National Museum, New Delhi, National Research Laboratory for Conservation, Jappur Museum, Government Museum, Chennai (Chemical Conservation, Archaeology and Botany Sections) participated in the exhibition.

6,3,2002 Rendered help to National Folk-lore Support Centre (N.F.S.C.) in the exhibition of Folk Paintings and Musical Instruments 13 12 2001- "Exhibition on Thaniavur Paintings" at the Gandhi

20.12.2001 Museum Exhibition Hall. The collections of Thaniaver pointings of Maderai artists were exhibited in this exhibition - Government Museum Madurai in collaboration with the K.A.M. Art Centre,

Madorai 29.12.2001 "Paintings Exhibition" - Paintings drawn by the school students on various topics were displayed. Dr.K. Manivasan, LAS., District Collector, inaugurated the exhibition - Government Museum Tiruchirannalli

26.01.2002- "Special Exhibition on Coins" 28.01.2002 Special and Commemorative Coins Released in the Democratic India were displayed-Government Museum, Tiruchirappalli.

30.1.2002-Palm-leaf and Copper Plate Exhibition -31 1 2002 Government Museum Salem 26.12.2001- "Special Exhibition on Coins" Government

31 12 2001 Museum Frode 03.03.2002 One-day Exhibition on Coins', 4000 coins

exhibited - organised jointly with 'Baramahal Coins Society's Government Museum, Salem 16.3.2002- Special Exhibition on 'Medicinal Plants' -Government Museum Pudukkottai

18.3 2002

Publications 1. Jain leonography-Vol 2 - Dr. R. Kannan, Pt. D. J. A. S., Commissioner, Thiru K. Lukshminarayanan, Assistant Director.

- Abstracts Book of the International Seminar on Conservation of Stone Objects, 18-21, Dr. V. Jeyaraj, Curator, Chemical Conservation and Research Laboratory, Chemia.
- Reprinting of three books on conservation was carried out. -Dr. V. Jeyaraj, Curator, Chemical Conservation and Research Laboratory, Chemiai
- Handbook on Conservation in Museums Dr. V. Jeyaraj.
 Care of Museum Object Jointly with Thiru, N. Hannarayanan
- Care of Museum Object Jointly with Thiru. N. Hannarayana former Director of Museums.
- Care of Paintings Dr. V. Jeyaraj.
- Museum's Journal Vol-6 (Tamil&English Chief Editor, Dr. R. Knnan, I.A.S., Editors Dr. V. Jeyaraj and Thiru. K. Sekar, Curators.

 Pamphlets

General brochure on the museum as a whole - Dr. R. Kannan, Ph.D., I.A.S., Commissioner, Dr. V Jeyaraj, Curator and Thiru K. Lakshminarayanan, Assistant Director.

- Rock and Cave Art Gallery Brochure Dr R.Kannan, Commissioner.
- Paintings in the National Art Gallery and the Contemporary Art Gallery - Brochure - Dr.R. Kannan, Commissioner, Thin K. Sekur and Thim M. Mohan, Curatures.
- Children's Museum Brochure Dr. R.Kannan, Commissioner and Thru K. Sekar, Curator, Children's Museum
- Conservation of Stone Objects, 18-21-12-2001, Chennai -Dr. V. Jeyaraj, Curator, Chemical Conservation and
- Dr. V. Jeyaraj, Curator, Chemical Conservation and Research Laboratory, Chemnai

 6. Chemical Conservation and Research Laboratory, 2002-Dr.V. Jeyarai, Curator, Chemical Conservation and

Research Laboratory, Chennas

	List of the Museums Publications Available for Sale in Chem and District Museums:		
SI. No.	Titles and Authors	Price Rs.	

 Guide to the Important Monuments in and Around Pudukkottai – M. Raghupathy 30.00 Guide to the Archaeological Galleries -

An Introduction to South Indian Temple Architecture and Sculpture - F.H.Gravely and C. Sivaramemurti 25.00

3. Guide to the Buddhist Antiquities -A. Aiyappan and P.R. Srinivasan

4. Illustrations of Indian Sculptures Mostly Southern - for use with the Guide to the Archaeological Galleries -F.H.Gravely and C.Savaramamurti 25.00

Select Bronzes in the Chennai Museum -M. Raman LAS

6 Guide to the Bronze Gallery -V N Srinivasa Desikan

A Souvenir Released on the Occasion of the Exhibition on South Indian Bronzes -M.Raman, I.A.S. 51.00 Amaravati Sculptures in the Chennai

Government Museum - C.Sivaramamurti 210.00 Naganattinam and Other Buddhist Bronzes

T N Ramachandran 10. Bronzes of South India - P.R.Srinivasan 386.00

11 Hand Book of the Madras Government Museum 80 00

12. Notes on Hindu Images -F.H.Gravely and C.Sivaramamurti

	Collection of Government Museum, Chennai R.Balasubramanian	20.00
15.	Catalogue of Stone Sculptures in the collection of the Government Museum, Trich N.Sunkaranarayana	y- 20.00
16.	Government Museum, Chennai (A small hand book)	5.00
17.	Government Museum, Chennas (Colour Folder)	10.00
18.	Ancient Industries of Tamil Nadu - Natana Kasinuthan	35.00
19.	Sri Vaishnava Brahmins - Diwan Bahadur K.Rangachur	100.00
20.	Early Eastern Chalukya Sculptures - C.Sivaramamurti	70.00
21.	Scripts in and Around India - V.Kannaiyan	50.00
22	Kalaichelvangal (Tamil) - R. Nagasamy	50.00
23.	Buddhist Sculptures from Stupa Near Goli Village, Gundur District - T.N.Ramachandran	40.00
24.	Catalogue of Copper Plate Grants - R.Srinivasa Ayyangar	40.00
25.	List of Inscriptions on Tombs or Monuments in Madras - Julian James Cotton, C.S.	110.00
26.	Story of Buddhism - A.Aiyappan and P.R.Srinivasan	115.00
27.	Notamba Sculptures - C.Sivaramamurti	50.00

 Guide to the Contemporary Art Gallery -M.Mohan

60.00

28.	Indian Epigraphy and South Indian Scripts	285.00
29.	Centenary Souvenir, Government Museum, Chennai (1851 - 1951)	175 00
30.	The Three Main Styles of Temple Architecture Recognised by Silpa Sastras - F.H.Gravely and T.N Ramachandran	20.00
31.	Beginnings of the Traditions of South Indian Temple Architecture - P.R.Srintvasan	20.00
32.	An Outline of Indian Temple Architecture - F.H.Gravely	20.00
33.	Government Museum, Chennai as a Research Institution - N.Devasahayam and V. Jeyaraj	35.00
34.	Proceedings of the Seminar on Conservation of Cultural Heritage - V.Jeyaraj	15.00
35.	Handbook on Conservation in Museums – V. Jeyaraj	35.00
36.	Care of Museum Objects – N. Harinarayana and V. Jeyaraj	20.00
37.	Guide to the Anthropological Exhibits - C.J. Jeyadev	39.00
38.	Adivasis of Kodiakkarai - A.V.N. Sarma	9.75
39.	The Tali in Relation to 'South Indian Initiation Rites - C.J. Jayadev	7.55
40.	The Harappan and the Vedic Cultures: Musings on Some Moot Problems - K.R. Srinivasan	15.00
41.	Catalogue of the Prehistoric Antiquities - Alexander Rea	35.00
42.	Catalogue of Musical Instruments Exhibited in the Government Museum, Chent - P. Sambamoorthy	35.00

43.	The Adichanallur Skulls -S. Zuckerman	25.00
44.	Excavation by the Madras Museum at Kilpaul Panunda, Punnol and Sankavaram	
	- M D Raghavan	25.00
45.	Nayars of Malabur - F.Fawcett	35.00
46	Report on the Socio Economic Conditions of the Aborginal Tribes of the Province of Madras - A. Aiyappan	85.00
47.	Ancient Culture and Tribal Culture (Tamil) – C.J. Jeyadev and M. Ragupathy	25.00
48.	The Foote Collection of Indian Prehistoric and Protohistoric Antiquities - Robert Bruce Foote	200.00
49.	Puppets in the Collection of the Madras Government Museum - N. Devasahayam	55.00
50.	Catalogue of Vijayanagar Coins in the Madras Government Museum - N. Sankaranarayana	74.00
51.	Catalogue of Venetian Coins in the Madras Government Museum - T.G. Aravamuthan	40 00
52.	Catalogue of Venetian Coins in the Government Museum, Madras - N. Sankaranarayana	25.00
53.	Medals in the Collection of the Chennai Government Museum - N. Sankaranarayana	31.50
54.	Solect Satavahana Coins - N. Devasahayam, M. Ramarao	20.00
55.	Descriptive Catalogue of the Butterflies in the Collection of Madras Government Museum - S.T.Satvamurti	n 231 00

56.	The Echinodormata in the Collection of the Madras Government Museum - S.T.Satyamurti	36.40
57.	The Birds' Eggs and Nests in the Collection of the Madras Government Museum - S.T.Satyamurti	43.95
58.	Grasshoppers in the Collection of the Government Museum, Madras - G.Kesavaram	85.00
59.	Guide to the Bird Gallery - S.T.Satyamurti	11.30
60.	Mammals (Tamil) - S.T.Satyamurti	8.30
61.	The Preservation of Zoological Specimens - P. Jawahar	10.00
62.	Handbook of Museum Technique - A. Aiyappan & S.T. Satyamurti	71.00
63.	Guide to the Fish Gallery - S.T.Satyamurti	65.00
64.	Guide to the Lizards, Crocodiles, Turtles and Toetoises Exhibited in the Reptile Gallery - S.T. Satyamarti	55.00
65.	Guide to the Galleries of Foreign Animals, General Zoology, Skeletal Exhibits and Amphi - S.T. Satyamurti	bians 50.00
66.	Guide to the Snakes Exhibited in the Reptile Gallery - S.T. Satvamurti	20.00

67. Guide to the Invertebrate Galleries

- S.T Satyamurti

68. The Wild Ferns of Madras City and Its Immediate Neighbourhood - M.S. Chandrasekar7.10 69. Flowering Plants of Madras City and Its Immediate Neighbourhood

- P.V. Mayuranathan 70. Medicinal Plants (Tamil) - M N. Pushpa

71. Special Features of Siddha Medicine (Tamil)

7.05

308

73.	Coins of India Through the Ages - PN. Mohandoss	10.0
74.	Temples of Periyar District (Tamil) - V. Jeyaraj	70.0
75.	Handbook on Preservation of Botanical Specimens - M.N. Pushpa	21.0
76.	Preservation of Records (Tamil) - V. Jeyaraj	15.00
77.	Documentation on the Cannons in the Government Museum, Chemni (Madras) - R. Kannan LA.S., and R. Balasubramanian	50.0
78	Whales (Tamil) - J.R. Asokan	10.0
79.	Holistic Approach to Dating in Ancient History, Especially Indian History - R. Kannan, I.A.S.	35.0
80.	Crocodiles (Tamil) - J.R. Asokan	15.0
81.	Scientific Facts about Snakes (Tamil) = J.R. Asokan	20.0
82	An Introduction to the Chemical Conservation and Research Laboratory - V. Jeyaraj	5.00
83.	Medicinal Plants Used in the Saddha System of Medicine - M.N. Pushpa	15.0
84.	Snakes - An Introduction - J.R. Asokan	10.0
85.	Restoration of Oil Paintings from Madras Christian College - V. Jeyaraj	15.00
86.	Guide to the Government Museum, Erode (Tamil) - V. Jeyaraj	15.0
87.	Guide to the Government Museum, Nagapattinam (Tamil) - V. Jevarai, J.R. Asokan, K. Saravanan	10 0

72. Guide to the Principal Exhibits in the Geological Galleries - E. George Jesudosan 13.55

89.	Iconography of the Jain Images in the Government Museum, Chennai (Madras) - R. Kannan, I.A.S., K. Lakshminarayanan	200.00
90.	Proceedings of the Seminar on Our Role in Protecting Cultural Heritage - R. Kannan, L.A.S., V. Jeyaraj, J.R. Asokan, and R. Balasubramanian	70.00
91.	Nayak Sculptures of Virdhunagar District (Tan – K. Lakshminarayanan	iil) 52.00
92.	Manual for Disaster Management in Museums - R.Kannan, I.A.S.,	
93.	Manual for Disaster Management in Museums - R. Kannan, I.A.S.	(Tamil)
0.4	Museum's Journal (Outstan 1999 - Musch 2000)	

25.00

88. Government Museum, Nagapattinam

R. Kannan, I.A.S., V. Jeyaraj and K. Sekar. 40.00

95. Museum's Journal (October 1999 - Murch 20(0) (Tariti)
 R. Kannan, I.A.S., V. Jeyaraj and K. Sekar. 40.00

96. Museum's Journal (Agril - September 2000)
 R. Kannan, I.A.S., V. Jeyaraj and K. Sekar. 40.00

Museum's Journal (Agrid - September 2006) (Tarni)
 R. Kannan, LA.S., V. Jeyaraj and K.Sekar 40.00
 Museum's Journal (Onober 2000 - March 2001)

- R.Kannan, I.A.S., V. Jeyaraj and K.Sekar 50.00

99. Museum's Journal (October 2000 - March 2001) (Taril)

- R. Kannan, I.A.S., V. Jeyaraj and K. Sekar 50.00

100.Museum's Journal (Aprèl - September 2001)

- R. Kannan, I.A.S., V. Jeyaraj and K. Sekar 50.00

101.Museum's Journal (April - September 2001) (Thmil)

- R. Kannan, I.A.S., V. Jeyaraj and K. Sekar 50.00

Articles Published

Dr. R. Kannan Ph.D., LA.S., Commissioner of Museums

- Documentation of the Project Management Process for the Web Site of the Government museum, Chennai -Museum's Journal, Vol. 6, Government Museum, Chennai December. 2001
 - The Idol of Balakrishna in the Government Museum, Chennai - A Symbol of the Haleyon Days of the Vijayanagar Empire - Museum's Journal, Vol. 6, Government Museum, Chennai, December, 2001.
 - Some Cultural Parallels Found in Mayan and Hindu Cultures Museum's Journal, Vol. 6, Government Museum Chennal December 2001
 - Overview of the Legislative Framework for the Protection of Our Cultural Property and Suggestions for Improving Implementation – Preprint of the International Seminar Proceedings on 'Conservation of Stone Objects', with Special Reference to Limestone Objects', Government Museum, Chennai, December, 2001.

Dr. V. Jeyaraj,

Orissa

Curator, Chemical Conservation and Research Laboratory

- Report on the Study of Rock Art in Tamil Nadu and Suggested Conservation Measures, Museum's Journal, Vol. 6 (Tamil), Government Museum, Chennai, 2001.
- Brough and His Service to Christianity, Museum's Journal, Vol. 6 (Tamil). Government Museum, Chennai, 2001.
- Preservation of Stone Inscriptions, Journal of the South Indian Numismatic Studies, Vol. 27, Mysore, 2001.
 - Preservation of Jain Monuments in the Twin Hills of Orissa, Seminar organised by the Regional Institute of Management on 24th March 2002. Bhuvaneshwar.

- The Status of Preservation of the Amaravat Limestone Sculptures in Government Museum, Chennai – Preprint of the International Seminar Proceedings on 'Conservation of Stone Objects with Special Reference to Limestone Objects', Government Museum, Chennai, December, 2001.
- Traditional and Modern Poulticing Methods in the Removal of Oil Accretions from Stone Sculptures – Preprint of the International Seminar Proceedings on 'Conservation of Stone Objects with Special Reference to Limestone Objects', Government Museum, Chennal, December, 2001.

Tmt. R. Shanthi, Curator, Numismatic Section, Government Museum, Chennai

"Two copper Coins of Sangam Pandyas", Special Bulletin of the Madras Coins Society, 2001.

Thirumathi. M. N. Pushpa, Curator, Botany Section, Government Museum, Chennai

"Reorganisation and Renovation of Economic Botany Gallery of the Government Museum, Chennai" Journal of Indian Museum, Museums Association of India, 2001.

Dr. J. Raja Mohamed, Curator, Government Museum, Pudukkottas

Medieval Monuments of Pudukkottai Status of Granite - Preprint of the International Seminar Proceedings on 'Conservation of Stone Objects with Special Reference to Limestone Objects', Government Museum, Chennai, December, 2001.

Thiru M. Gandhi,

- Carator, Government Museum, Vellore
 - "Copper Antennae Swords of Appukkal" Museum's Journal - Vol.6, December 2001.
 - "Koratti Surya", Pazhangasu Magazine, Trichy, January, 2002

Dr. C. Maheswaran, Carator, Education Section, Government Museum, Chennai

- "The Copper Antennae Swords Unearthed from Coimbatore District" (English) - Museum's Journal - Vol. 6, December 2001.
- "Two Rare Icons of Deitles from the Indian Iconographic Perspectives" (Tamil) - Museum's Journal - Vol. 6, December 2001

Thiru. C. Govindarajan, Curator, Government Museum, Vinudhunagar

mator, Government Museum, Vincontina

Dravidian Architectural Element in the Indus Valley Civilization - Museum's Journal - Vol. 6, December 2001. Thiru, N. Soundaraoandian.

Curator, Government Museum, Udagamandalam

- Wellington Military Cantonment Museum's Journal, Vol. 6. December 2001.
 - voi. 6, Determore 2001.
 2. "The Role of Curstor in Preserving Stone Sculptures" Preprints of the International Seminar Proceedings on Conservation of Stone Objects with Spocial Reference to Limestone Objects; Government Museum, Chennai, December 2001.

Thirumathi. R.D. Thulasi Brinda, Curator, Government Museum, Krishnaviri

"Krishnagiri in Indus Valley Civilization" - Maangani, March 2002.

Thiru. T. Packirisamy, Curator, Government Museum, Sivagangai

"Birds' Migration" - Museum's Journal, Vol. 6, December 2001.

Thiru K. Saravanan, Carator, Government Museum, Nagapattinam

"Nagore Surya Sculpture" Museum's Journal (Tamil) Vol.6, December . 2001.

Thiru N. Sundararajan, Curator, Government Museum, Cuddalore

"Stone Sculptures and Their Environment" - Preprint of the

Stone Sculptures and their Environment - Preprint of the International Seminar Proceedings on 'Conservation of Stone Objects with Special Reference to Limestone Objects', Government Museum, Chennái, December 2001.

Research Activities

- Finger-printing of South Indias Broaxes in collaboration with the Indira Gandhu Centre for Atomic Research, Kulpakkam (Chemical Conservation and Research Laboratory and Archaeology Section).
 Holographying Broaxes in collaboration with the Centre for
 - Laser Technology, Anna University, Chennai (Chemical Conservation and Research Laboratory and Archaeology Section).
 - The Rock An Communities comprising of Dr. R., Kannan, Ph.D.
 LA. S., Third K., Lakshningsrayan, Assistants Director of
 Museuma, Dr.V. Jeyray, Dr. C. Maheswarra, Thirs J.R.
 Acolema and Tharac R. Balandermannes, Caranton inoug with
 confusing the Communities of the Comm
- Villuparam District on 01.11.2001 and 15.02.2002.

 4. Thiru. M. Gandhi, Curator, Government Museum, Vellore is continuing research on the Inscriptions and Fort of Sambuvrary ruler at Pallakuppan hill, Gudiyaham taluk and Dantivarman's Inscriptions at Balekuppam, Katpadi
- and Dantivarman's inscriptions at instreuppain, Adaptin Talek.

 5. In connection with the publication of "Iconography of the Jain images in the in the District of Tamilinadi" (cover the museums of the Departments of Archaeology and Museum) New series - G.S. Vol. XVII No. 1, 2012, a report on the

analysis of adhered particular in the inner core of hollow hmnze from Government Museum, Vellore

The Commissioner of Archaeology and Museums Dr.R.Kannan, Ph.D. LAS derested the Archaelogical Chemist. Mr.M.S. Ashok Deen to examine the inner core of a Jain bronze displayed in the Vellore Government Museum. It was east by hollow costure technique. The sample was sent to the Chemical Testing Analytical Laboratory. Chennai-32 of the Industries Commerce Department, Government of Tamilnadu. As per their analysis report the black material was proved to be siliceous materials. The results are as follows:

	Moisture	0.3 %
	Loss on ignition	2.60 %
	Silica as SiO,	72.63 %
١.	Iron as Fc,O	32.94 %
١.	Titanium oxide as TiO,	0.35 %
	Aluminium as Al,O,	17.69 %
١.	Colcium as CaO	Traces
	Magnesium as MgO	0.52 %
	Sodium as Na.O	1.43 %
	Potasium as K.O	0.92 %

The inner core consists of hydrated aluminium silicate of variable composition. The back colour of the adhered particile was due to the heating for casting. The basic characteristic of this type of clay is that it is plastic and is capable of containing Moisture so that it can modelled and moulded. It hardens on drying. On heating it becomes rigid and stony. It does not yet damaged for many years. It does change form and these qualities have made man to use clay in a wide variety of industries like bricks, ceramics, etc. It is the material of choice to cast bronze icons.

0.62 %

Reports

Dr. V. Jevarai.

10. Copper as CuO

Curator, Chemical Conservation and Research Laboratory

1. Report on the Conservation of Materials of Yogi Ramsurat Kumar in the Ramsurat Kumar Ashram, Thiruyannamalai,

2. Report on Rock Art in Tamil Nadu.

Dr. C. Maheswaran Curator, Education Section, Government Museum, Chennai

Report on the Indian / Tamilnadu Rock Art sites (November 2001).

Thiru J. R. Asokan. Curator, Design and Display Section

Report and project proposal for the establishment of a museum in the Yogi Ramsurat Kumar Ashramam at

Tiruvannamalai Conservation Work

1920 Raia Raia Chola copper coins, 72 silver coins, 4 bronze icons, 2 Amaravati limestone sculptures, 57 pieces of textiles, two oil paintings on canvas, four water colour paintings, ten oil paintings from Government Museum, Padukkottai were suitably conserved. All the sculptures from the Hindu Sculpture Gallery and Entrance Gallery and Amarayati Sculpture Gallery were cleaned suitably.

During December 2001, the replices of the antiquities of the 'Indus Valley Civilisation' in the reserve collection of the Education Section of the Museum were given restoration and conservation treatment by the Artist Modeler, under the supervision of the Curator of the Education Section.

About fifty vascular plants were given preservative coating with saturated solution of mercuric chloride and spirit

The staff of the Pudukkottai Museum helped to strengthen and preserve the exhibits in the zoology department's Museum,

at Government College for Women. Pudukkottai.

Staff Changes

Dr. C. Maheswaran, Curator, Ciombatore was transferred and posted as Curator Education Section, Government Museum, Chennai on 16.10.2001.

Thiru J. Mullaiarasu, Curator, Government Museum, Erode is holding additional charge of Government Museum, Colmbutore from 19 10 2001

Tours Undertaken

Dr. R. Kannan, Ph.D., I.A.S.,

Commissioner of Archaeology Museums

03-10-2001 & 18-10-2001 - See Page 53 for details

30-10-2001 - Tour to Bhoral, Agra, Delhi to inspect the Rock 05-11-2001 Art sites in Bhopal, Rock Art Society's Office in Agra. National Museum and National Museum of National History in New Delhi alone with some

Curators and the Assistant Director of Museums in connection with the Rock Art Gallery 18-12-2001. Attended the meeting on Central Archaeology 19-12-2001 Advisory Committee in the Chamber of Minister

for Culture & Tourism at new Delhi. 27-02-2002 - Attended the Conference of Museums Association

04-03-2002 of India at Bhorsl 09-03-2002 Visited Poondi Site Musuem. Athirampakkam Pre-

historic Excavation and Evanreeswarar Kovil. 29-03-2002- Thanjavur, Tiruvarur, Nagapatinam, Tranquebar 02-04-2002 Fort for renovation, Poompuhar Site Museum, Maviladuthurai. Chidambaram. Cuddalore -Inspected Gangaikondacholapuram, Kilpalayur

monuments and site museums. Inspected Kalyana Mahal & Thaniavur Art Gallery, Discussed with Prince & Thaniavur Collector, Inspected Government Museum and Tituvatur Temple for renovation. Inspected Government Museum and discussed with the Collector, Naganatinam, Inspected Government Museum, Cuddalore

Thiru. K. Lakshminarayanan,

Assistant Director, Government Musuem, Chennal,

1-11-2001 Undertook Study-tour to Bhonal and studied the Rock Art sites at Bhimbetka, Museum of Mankind and the State Museum. Bhonal along with the Rock art Study Team.

2-11-2001 Discussed with the Secretary of the National Rock Art Society. Agra about the rock art of India along with the Rock art Study Team. Visited National Museum of Natural History, 3-11-2001

Delhi and got information regarding the setting up of the Rock Art Gallery in the Museum 15.02.2002 Tour to Rock Art sites at Keezhvalai. Perumukkal and Alambadi of Villpuram district.

National Rail Museum and National Museum, New

Dr.V. Jevarai. Curator, Chemical Conservation and Research Laboratory

01.11.2001 Undertook Study-tour to Bhopal and studied the

Rock Art sites at Bhimbetka, Museum of Mankind and the State Museum, Bhopal along with the Rock art Study Team

02.11.2001 Discussed with the Secretary of the National Rock Art Society. Agra about the rock art of India along with the Rock art Study Team.

03.11.2001 Visited National Museum of Natural History National Rail Museum and National Museum, New Delhi and got information regarding the setting up of the Rock Art Gallery in the Museum.

Discussed with the Secretary of the Indian Association for the Study of Conservation of

Cultural Property regarding the conduct of the International Seminar on Conservation of Stone Obsects. 21.12.2001 34 Delegates of the

Seminar were taken to Mahabaliouram. Kanchipuram and Muttukkadu to visit various monuments and Open Air Museum of the

Dhakshinachitra on a post-conference tour.

Discussed with the Scientists of the Indira Gandhi Centre for Atomic Research, Kalpakkam on the Metallography of Coins and Infra Red Photography of Paintings.

 3.3.2002 Visited Sanchi to study the Buddhist Stapa 04.3.2002 Discussion with Dr. Tei Sinnh. Director of the

National Research Laboratory for Conservation, Lucknow after visiting the Laboratory on Conservation issues. Discussion with Mrs. Usha Agawal, Director of INTACH, Lucknow on the conservation of antiquities. Discussion with Mr. Palaniappan, Secretary, Revional Secretary, Lulit Kala Academy on

conservation issues related to paintings

5-3-2002 Visited the Conservation Laboratory of the
INTACH, New Delhi and discussed with
Dr.O.P.Agrawal, Director General of ICCI, New
Delhi on compression turns

30-3-2002 Undertook tour to Thiruvarur along with the Commissioner of Museums to examine the paintings at the Thousand-Fillared Mantap of the Thiograpiaswamy Temple. Thiruvarur.

Thiru. P. Jawahar,

Curator, Zoology Section 24.01.2002- To conduct enquiry in the Government Museum, 25.01.2002 Vellore.

25.01.2002 Vellore.

06.02.2002 To conduct enquiry in the Government Museum,
08.02.2002 Tiranelyeli.

Thiru M. Mohan,

Curator (in-charge), Geology Section

4.12.2001 Under took tour to Sathyavedu to explore the details and find out the possibility of getting red sand stone in connection with conserving the National Art Gallery building.

Thiru, R.Balasubramanian, Curator, Archaeology Section

08.10.2001- To digitally photograph art objects at the 12.10.2001 Government Museum, Pudukkottai, 30.10.2001- To the Rock Art sites in Bhopal, Rock Art Society,

05.11.2001 Arm. National Museum and National Museum of National History in New Delhi in connection with the Rock Art Study

31.01.2002- To Thaniavur regarding taking over of the Taniore 04.02.2002 Art Gallery.

30-03-2002 To digitally photograph the Jain Bronzes in the Government Museum, Vellore,

Thiru. J. R. Asokan. Curator, Design and Display Section 30-10-2001 - To the Rock Art sites in Bhopal, Rock Art Society

05-11-2001 Aera, National Museum and National Museum of National History in New Delbi along with the Commissioner of Museums and the Assistant Director of Museums in connection with the Rock Art Study Dr. C. Mahaswaran

Curator, Education Section, Government Museum, Chennai

01.11.2001 Study tour to Bhimbetka Rock Art sites, along with other members of the Rock Art Committee headed by the Commissioner of Museums.

01.11.2001 Study tour to Shamla Hills Rock Art sites at IGRMS Campus, Bhopal, along with other members of the Rock Art Committee headed by the Commissioner of Musaums

02 11 2002 Study tour to the 'Rock Art Society of India (RAST) at Aera and had discussion with Dr. Girirai kumar.

Secretary of Rock Art Society of India, along with

other members of the Rock Art Committee headed by the Commissioner of Archaeology and Museums. 03 11 2001 Study tour to the National Museum of Natural History (NMNH) and the National Museum, at New Delhi, along with other members of the Rock Art Committee headed by the Commissioner of

Tour to the prehistoric Museum at Poondi, as an 23 11 2001 expert committee member. 15.02.2002 Tour to Rock Art sites at Keezhvalas, Perumukkal

and Alambadi of Villouram district

Mucaume

Thiru, M. Gandhi, Curator Government Museum Vellore

01.10.2001 Inspected treasure-trove from Vennamnattu at

Vandavasi Talak Office

03. 10. 2001 Explained to the Commissioner of Museums and

Archaeology, the Jain temples of Thirumalai, Polur taluk and surveyed Yori Ram Surat Kumar's Ashram Thirmsannamalai 18.10.2001 Showed to the Commissioner of Museums and

Archaeology the Battle Field of Vandavasi where the battle took place between the British Cantain Eyre Coote and French Captain Lally to erect a memorial at Vandayasi and accompanied Commissioner while visiting Chandramoulishwara

Temple at Natteri, Cheyyara taluk. 14.12, 2001- On other duty at Government Museum, Chennai

21.12 2001 in connection with it's 150th year celebrations.

19, 02, 2002 Went on tour to Oravandavadi, Chengam taluk, Tiruvannamalai district to inspect treasure-trove objects.

20.02.2002 Showed to the Thiravanamalai District Collector, the Battle Field of Vandavasi, where the battle took

place between British Eyre Coote and Frence Lally at Vandavasi and a site to erect memorial in memory of the above battle at Vandavasi and inspected stone sculptures at Mahadevimangalam in the same table.

21.02. 2002 Inspected treasure-trove objects at Vaniyambadi taluk office and Pattu village, Gudiyatham taluk.

 02. 2002 Took estampage of inscription at Vinnampalli, Katpadi taluk.

Thiru. P. Sam Sathiaraj, Curator, Government Museum, Madurai

16.10.2001 Went to Kallanthiri village, Madurai district to survey some Hero stones.

09.01.2002 Went to Kandamanur village, Theni district to survey the skull of an elephant excavated there.

Thirm. A. Periasamy,

15.02.2002 Inspected a Hero-Stone at Manur, Palani.

16.02.2002 Insepection of stone sculputure near Manur.
Thiru. N. Soundrapandian,
Curator, Government Museum, Udagamandalam

08.01.2002 Visited Combatore, Archaeological Site Museum, 09.01.2002 to study the Iconography of Stone Sculpture collected from Frode and Combators Districts

05.03.2002 Visited Kothagiri, Kannerimukku to inspect the 06.03.2002 John Sullivan measurement and submitted report

Thirumathi R.D. Thulasi Brinda, Curator, Government Museum, Krishnaziri

Curator, Government Museum, Krishnag

04.10.2001 To inspect the treasure-trove at Palagode taluk

08.11.2001 To inspect hero-stones near Penneswararmadam Temple.

12 12.2001 To Venunnapalli to study Palm-leaf manuscripts Thiru. G. Karunanidhi.

Curator, Government Museum, Tiruvarur

18.02,2002 To inspect the treasure-trove (Bronzes) at Taluk Office Valangaiman Thirmwarm district

15.03.2002 To inspect the treasure-trove (Bronzes) at Mannargudi Taluk Office, Tiruvaur district.

Thiru, K. Sarayanan, Curator, Government Museum, Nagapattinam

29.10.2001 To participate in the meeting in connection with the "Allotment of Lands to the Government Offices" conducted by the District Revenue Officer. 11.01.2002 To inspect Adalaivur treasure-trove objects at

Naganattinam Taluk Office 08.03.2002 To inspect Naganathaswamy Temple Car at Nagore

31.03.2002 Accompanied the Commissioner of Museums to Transpellar Danish Fort Museum and studied the collection and the display of artefacts there.

Thirm, C. Govindarai. Curator, Government Museum, Virudhunggar

at Thiruthangal

01.10.2001 To Government Museum, Thirunelveli to look after 31.03.2002 the museum after assuming additional charges.

To inspect the newly found treasure-trove objects at Rajapalayam Taluk Office To study the cave temple and the Durga sculpture

Thirumathi. S. Krishnammal, Curator, Government Museum, Kanyakumari 19.10.2002 To study Padmanapuram Palace

29.10.2001 To inspect Kalvizhi - Memorial stone.

01.11.2001 To inspect the stone sculptures at Marunthukottai.
27.11.2001- To study Trivandrum Museum and Trivandrum

28.11.2001 Archives

06.02.2001 To inspers memorial stone Punnarkulan

06.02.2001 To inspect memorial stone Punnarkulam.

15.02.2001 To inspect stone erinder at Marungoor.

15.02.2001 To inspect stone grinder at Marungoor.

Thiru. J. Mullaiarasu,

Thiru. J. Mullasarasu, Curator, Government Museum, Erode and additional charge Government Museum, Coimbatore

09.10.2001 To inspect the treasuretrove coms in the Gobi Taluk Office.

12.12.2001 To inspect the Varramangalam treasure-trove objects in Bhavani Taluk Office.

09.01.2002 Inspection of 6 stone sculptures at Kolinjavadi village in Darapuram taluk.

22.01.2002 Inspection of stone sculptures at Vairapalayam in Erode.

23.01.2002 Inspection of 46 stone sculptures at Bargur in Bhavani taluk.

09.11.2001 To inspect the stone sculpture of Subramania.

swamy (Murugan) at Pollachi Taluk Office, Coimbatore district.

Thira, T. Packirisamy,

Thiru. T. Packirisamy, Curator, Government Museum, Sivagangai and additional charge Government Museum, Ramanadapuram

09.01.2002 To inspect Durgas Amissan sculpture and a burial urn at the Taluk Office, Thrupathur, Siyananna

district.

09.01.2002 To inspect the Lakshmi and Saraswathy brass icons at the Taluk Office. Karaikudi Siyaoanea district. To Government Museum, Ramanathanuram to look Oct. 2001-Mar. 2002 after the administrative works

Thiru, N. Sundararajan. Curator, Government Museum, Cuddalore

29 10 2001. To inspect treasurestrove Devi scuinture at

Adatharam village, Ginice taluk, Villupuram district

11.01.2002. To inspect sculptures in the resenic collection kept in the district Archaeological Office. Chidambaram.

Visitors

During the period October 2001 to March 2002 the number

of visitors, visited the museums are furnished below including school children Chennai 1.46.128 Podekkottsi 48 640

Salem 7.834 Maduai 35 858 Tiruchirappalli Vellore 28 341 Erode 3,529 Udhagamandalam 3,578

Cuddalore 4.105 Timmelveli Kanyakumari 3.084 3.005 11 195

Krishnagiri Palani 13,293 Tiruyarur Nagapattinam 4 804 Kaancheepuram 4.085 Ramanathapuram 1627 5 685

Sivaonaga Karur Virudhunagan 2.740

V.I.P 's Remarks & Appreciation Letters:

By visiting Government Mureum, Chemea I have got more information about lading Cultural and Circlications. These that the cultural exchanges between our two countries would be more fruitful in the future.

- Song Linksi, Christo Embrasy, New Delhi Lam traby sorry, that you (Dr. R. Karrenn) can not come to our (ft² International

Lan early sorry, that you Die R. Kareno) can not come to our (of "international Colleguism of Association of International Misseums of History) conference. But we can not help at 50 we have decision to the copies of your speech and we shall read it and show your Power Pour precessions. You had do on a protein job with your precessions. Cliffs Palmagrant, Labit Misseum, Feshand.

Indeed, the (6th International Collectaum of AIMH) conference was a recens and it privets opportunity to meet and discuss with people from other containers. Unfortunity, some people like you were missing and in the end, there was less people than expected (second 70).

(second 70)

The weather was great, remitine all the time, and the welcome from Pannish
organizers was very size. The country to benefitful, with founds and bloom illower and
few subdivines. So, it was a change form who less in a country in the Pannish

Your (Dr. R. Kannan) paper was read by a Fannish lady and it was very unterested and well documented. I could follow myself with the draft paper you had not earlier. But there was no mease. Your paper will be published of course, and all other papers ino, and my colleague.

Your poper will be published of course, and all other papers too, and my colleague, Claudus, also working in the association will put the conferences on lane, may be this assume. If possible

-Elisabeth Durezner, AIMH, Paris.

-Elitabeth Durernay, AIMH, Pans.

The museum is much to be congrutulated, firstly for getting such a wonderful

balding and recordly for beginning the programme of display. The work that has been dones were not, clean and has done belong. There not interesting plans for the future, funds permitting. Warm Congradulations. All great wishes for the future. Thus is a delightful place to visit and should attract, many others. Feedbaldings (Decrease of Collectional Letting, Security Est. Bald Salaria (Decrease of Collectional Letting, Security Est. Bald Salaria)

· Torba

Victoria & Albert Messum, LONDON, 25th December, 2001

A eccently shafted messum in this palatnal building is an advantage and I expect
that will be one of the best nationing as a the years go. I was begrev to variething masseum.

of the best museums as the years go. I was happy to variethes museum.

**R.L.Piploni,
Secretary. Notes: Trust for the Inches Collections at the

Victoria and Albert Massem, Tono Murthy House, New Delhi The museum has an excellent collection of various states, fornils and other ascent collections. The Rati Magarmond Hall itself is a landstark in Truchs tily. The museum is well it statistized and a face to oblice from other olders. In Action for current

> - Dr. K. Mentreson, L.A.S., District Collector, Transferencelli, 200 December 2001

Sambuvara Restdrin



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ARTICLES

MUSEUMS, SCENOGRAPHY AND TOURIST ATTRACTIONS

Dr.R.Kannan, Ph.D. I.A S Commissioner of Archaeology and Museums, Government Museum, Chennas -8

This paper outlines how museums have to compete with pure entertainment attractions like amusement parks for visitors. This was not the position in the past, when the usual tourist attractions were only museums and zoos. Museums were inwardly oriented and felt that their only duty was to collect and preserve antiquities, while entry was free. Now they have to find a place in the market spectrum as educational entertainers while charving entry fee in order to attract visitors, local and tourists. How they use new display techniques to market viewing of their collections like scenography (simulating nature or themes as backdron), interactive display, virtual reality etc to make themselves a magnet for visitors is discussed with illustrations with special reference to history museums mostly from India. It concludes that while information technology may be able to move images of the objects and information on them over large distances, still the need to see and feel objects is indispensable. Therefore, museums are likely to reinvent themselves and remain relevant for a long time to come. Introduction

Tamil Nadu is the crade of civilization of the world. Its rich artistic and cultural heritage has attracted traders and foreign visitors through the ages. Foreign visitors who paid visits in the past like the Chinese traveller Huien Sang have writtened past like the Chinese traveller Huien Sang have writtened extensively about it. It has many old towas and cities like Chennal, Madural, Tanjore, Kanchpuram, Mannalapuram (Mahabalipuram) etc. Chiure consisting of bettiege monuments, museums, performing arts and also nature escecially its beaches

(Mahahalipuram) etc. Calture consisting of heritage monuments, museums, performing arts and also nature especially its beaches have been major tourist attractions. Now, sanctuaries and amusement parks have also become a major draw.

Amusement parks are coming up in large numbers these

days. Even though the entry fee is very high, visitor traffic to

such parks is increasing day by day. Tourists flock to them. But they do not offer educational entertainment like museums. The more educated classes and older folk, therefore, still visit

museums

Museums largely attract tourists as visitors. With rising more and leisure, people are looking for entertainment. They are flexible concept to go to a place, which offers education or entertainment. A minuscule percentage is bowever serious scholars who use the practical knowledge available there like sculptures, specimens etc.

There is a sea change from the 16th Century concept of museums as a place where valuable antiquities are safely stored to the present day where museums have to aggressively woo visions by imaginative and interactive new display and outreach activities that take the auseum to the community. In these days of tight budgets, museums depend on visitors, especially inland and forcism outrists for their sustenance.

Hadon ficis that a maxima has to deliver value to a customer by its onlying and five controls artificed of the sattle (Bidone K. 1985, p. 8). Muscum values are comparing them with other attractions and expecting international standards, with the control of the control of the control of the control audio-visual media like citeviton, comparer games and the Internation parameter from the pathic Special cathelium on some themse like "Tipu Sinfan" or Fulk Arts are held to strated internation of the control of the control of the control internation of the control of the control of the control internative display to change in the time of exceptingly holds the ky to attracting values of the control of the cont

The Department of Archaeology and Museums, Government of Tamiliandu, India has one huge ceutral museum called the Government Museum, Chennal (Modras) and 38 district and site museums. The museums are predominantly archaeology and art history museums, though they are multi-disciplinary "with science sections also."

In this short presentation, we shall see the need for scenography and innovative display technaques for making the collections of museums especially history museums, attract visitor traffic and remain a prime attraction for fournts as in the past. The experiences in ladia especially those of the Government Museum. Chemail are used to flishtrate the notist made.

Change in the Concept of Museums

Dr. Samuel Johnson's Dictionary (1755) defines a Museum = "a repositor of learned croistoirs". The declaration made in the Copenhagen 10th General Conference of the International Council of Moscous sate of the America of a cocety and its permanent institution, in the service of accety and its development and open to the public for the purpose of study, development and open to the public for the purpose of study, "a Miscous in a Stevene provider for the spread of Knowledge (Kanana De R., 2007).

The concept of museums has changed radically from functioning as mere storehouses of antiquities with the Curators functioning as their custodians. Curators have to change from their inward orientation to their collections to look outward to their customers, their need for education and entertainment (Middleton Victor C., 1985, p. 17). Now the role of museums is to 'entertain while educating'. The non-profit orientation has also been challenged by some museums like Guggenheim. For them. museums have to create surplus to survive, renovate and grow just like businesses. These changes have occurred mainly in developed countries especially, the USA and to a lesser extent in Europe and U.K. The private Iron Bridge Gorge Museum, England shows a drop in visitor numbers in the 1990s (Swarbrooke John, 1999, p.334). This is a problem when museums are priced and have to compete with television and other pure entertainment attractions like cinemas or theme parks. Museums have to monitor visitor reactions continuously to undate their display if they are to continue to attract visitor traffic ((Middleton Victor C., 1985, p. 25). In India, change is slower but surely, museums cannot remain static. Or they will meet the fate of the dinosaur.

Museums vis-à-vis Amusement Parks

Museums like other tourist attractions can be classified by catchment area as local, regional, national or international depending on from where the visitors come from. The Louvre or the Government Museum, Chennai are international - their visitors come from all over the world (Swarbrooke John, 1999, pp.10-11). The number in India is more due to the size of the population but revenue is low. The population of India is still young and therefore the competition from theme parks and entertainment attractions is high, while the demographic chang to mature populations in Europe may mean a swing to museums which are perceived as more

educational than mere frivolous entertainment (Swarbrooke John. 1999, p.54). For foreign tourists, who are mostly culture tourists, a museum visit remains a must

more popular with the age group 25-54 and had a higher upper class patronage (Swarbrooke John, 1999, p.79). Segmentation of the market according to the category of visitors and tailoring plans and strategies to suit the different segments is necessary, if a museum is to succeed. A government museum cannot deny access to any class of visitors but we raised rates to cater to a highen class segment (Kannan Dr. R. 2002). In the Government Museum, Chennai we have half a million visitors every year. Our market niche is safe. The problem of competing for visitors is not very acute.

It has been found by market research that museums were

Historic Sites and Monumen Historic sites and

monuments give a real feel of the place. They can be placed midway between amusement norks museums in the tourism market. Now - a - days they have son-et-lumière shows



which make the tourists relive the past and make them participate in the landmark events of history. Use of the latest virtual reality audio-visual techniques like wide screens etc in some cases make the viewers a part of the recreated historical scene, for example a battle scene etc. Golkonda Fort, Hyderabad, Red Fort, Delhi Tirumalai Naicker Mahal Madarai have excellent sonieti lumière shows. We have not come to the stage of creating mock ups of past scenes with costumed actors as in Warwick Castle. England etc. However, the pollution caused by littering, graffiti etc damage the sensitive monuments and sites. I found plastic litter in Bhimbetka near Bhopal, one of the greatest rock art sites in the world. A balance has to be struck between heritage tourism and damage to the buildings (Herbert David T., 1997, p.213). This is more so in the case of thickly populated countries like India, where poverty and lack of civic consciousness usually go together. Most of the buildings housing the Chennai museum like the National Art Gallery and Museum Theatre are themselves beritage buildings. Similar is the case with several district museums. These buildings also attract visitors. We plan to conserve these buildings while building in infrastructure to cope with 21st Century museum display requirements.

Scenoeraphy

museums for their display

answer to the

onslaught by

Scenography is the design of the visual environment as an integral constituent of the display theatre for the design of the set (Reid Francis, 1996, p.99). Use is made of colour, shape and space to convey ideas and a story though the means and materials may be inexpensive (Howard Pamels, 2001). This idiom is adapted in

especially in Diorama and Thematic displays, It is being Rock and Cave Art Gallery increasingly used in order to Simulated display of attract visitors to museums, as an shabalinuram has relief cave andio-visual sculratures - Seshasaya competing

attractions. For instance, the Museum for Peace, France claims in its Web Site that it uses original scenography and modern technology to display the history of the 20th Century. We have to use these changes imaginatively for taking museums to the people so that they continue to be relevant for educational entertainment. They must remain a 'must see' for tourists to any city. The



A Scene from the Kerala History Museum - The Maharajoh of Travancore and Padmanabhaswami Temple, Trivandrum, Kerala

privately owned Kerala History Museum at Cochin uses models, sound and light along with each frame to depict a landmark event as a scene from the history of Kerala. This is a great success. However, the technology is slightly dated. Still it simulates the atmosphere and scene of the event in the closed space of a museum gallery. In the Government Museum, Chennai, dioramas have been increased to a huge size this year (2002) with the backdrop being computer generated photo-prints of real scenes lit with the latest lighting to make the visitor experience virtual

Dynamic Use of Collections for Educational Entertainment Marcam displays

should interest the schol and lay visitor equally. Otherwise they would not generate visitor traffic (Miles R.S. et al. 1988) p.3). Successful attractions are based on a povel idea for exploiting collections (Swarbrooke John. 1999.p.114).

reality.



painting gallery

India the exhibition of crown lewels in the Hill Palace Museum near Cochin or the Nizam of Hyderabad's iewels in the Salar Jung Museum at Hyderabad is based on an idea, which is novel to that area









The new Dinosaur gallery in the Science Museum, Salt Lake, Calcutta with moving models, sound and light is an instance of such a novel idea attracting large crowds.

The display of the paintings of Raja Ravi Varma in Fibre Ontic lit showcases is another instance of old static collections generating visitor interest by their new display. The Rock and Cave Art Gallery of our museum simulates the atmoséhere of the caves of the pre-historic and historic periods using the latest technology. In the Government Museum, Chennal there are

ractive models in the Children's Gallery, which attract children and adults alike. These objects entertain while they educate the public about themselves and their field of knowledge.

Science museums like the Birla Science Museum at Hyderahad lend themselves to interactive display more than history museums.

We have tried to introduce interaction through visitor activated son-et-lumière display in our new Rock and Cave Art Gallery.

New Techniques of Display New techniques of display like interactive

display of objects, thematic exhibitions as seen above in scenography are going to be the in-thing. They alone can attract and sustain visitor interest.



participatory and often have enimations in them Museums with touch screen, audio-visual displays etc are more visited than those with



static old display. Visitors are attracted only when objects like animals are displayed in their own environment. Dioramas are another method of simulating reality especially when displaying animals in their natural habitat.

We have used the management technique of Clean Break in the design of showcases and galleries this year in our museum.

designed by The 1960s design has been changed ourselves radically. We have several technology Cassowary bird demonstrators in the Government Museum Chennai, which have been replicated in some district museums also. We have replicated, with suitable modifications to suit Indian conditions, showcase design used in European museums. This is largely, to be immodest, due to the management orientation of the Commissioner, Fibre Optic and Dichroic Halogen lighting, Visual Storage of paintings and Modular Storage of sculptures on the lines of the British Museums have been introduced Dioramas have been increased to a huse size of 12 feet by 6 feet. Vinyl computer generated prints with the latest lighting

make the visitor feel that he has been



New International standard shownases igned by ourselves -Natraja bronze actual scene.



caves. We have used display printed like son-et-lumière. Touch Screen and Translides to stimulate visitor interest. The son-et-lumière is activated by the visitor himself / herself. This is based on Infrared ray technology. Simulation and informative labels provide a feeling of

aphic Gallery to display holograms of bronzes and other rare artefacts has been planned. In the Gallery for Rock and Cave Art (pre-historic and historic periods), we have simulated the natural atmosphere



paintings

Use of Information Technology

Web Site

Our Web site went or line on 18-12-2001. It uses an Ontical Carrier Band -III (OCB-3) Server based in USA, one of the fastest in the world. It contains 1400 pages of A-4 size corresponding to 122 Megabytes of electronic size. Chennalmuseum.org is one of the largest web

sites in the museum world.

grade objects.



We have not held much back but displayed all our best nieces like our rare stone and bronze sculptures, paintings etc on the web.

In addition to the Web site, we have used information technology for e-mail, scanning and storing of photographs on computer, used these scanned photographs and appropriate software for publications, digital photography and for digitising the Accession Register in respect of the important 'AA' and 'A'

Opening the Galleries to New Activities

Foreign museums even host concerts in the galleries as was done in Edinburgh (Stewart Allan, 1985, p.96). In the Government Museum, Chennai, we had recently a National Folk Arts Festival performed in our open-pir theatre. This brought in extra foreign tourist traffic. We are still conservative and do not open our galleries to extraneous activities for fear of damage to the artefacts.

Has the New Technology made Original Physical Objects of Art Obsolete?

Museums are the only institutions that collect and preserve the original objects for posterity while still displaying them innovatively. When the antique is lost or damaged, all is lost. Nothing can replace the sight and feel of the original object. Everything else is Virtual Reality i.e. illusion or Maya as we call this physical world in Indian Advaita philosophy. This shows that the attachment to the original objects still remainst

Conclusion In this seminar paper, we have seen how in the past museums were mere collectors and preservers of artefacts with display being a by-product. Since there was not much competition, they could get visitors, both local and tourists, though the orientation of the displays was passive. Besides, admission was free. Now, they have to compete for visitors with other tourist attractions like amusement parks, cinemas, video game parlours etc. while charging for entry Interactivity with their visitors is the key the new attractions use to draw visitors. Museums have also changed to a customer oriented outward approach in order to maintain their position as popular visit spots. They educate while entertaining. They try to cater to the market segment, which has a taste for knowledge but also wants to learn. They have used scenagraphy to simulate reality such as heritage manuments. events etc. Thematic displays, dioramas, use of information technology, interactive displays etc are some of the other methods of display used to attract and sustain visitor interest. They also impart useful knowledge. This has enabled them to compete with heritage attractions with their attractive displays, but which cater to a similar market segment as museums, especially history museums. Museums are, of course, easier of access for tourists in a hurry. In India, our population ensures that visitor numbers do not decline. Foreign tourists are mainly here to sayour Indian culture. Therefore, they do not miss to visit museums. Finally, though new technologies like virtual museums and so on may bring images to the living room, nothing can substitute for the oring images to the siving room, nothing can substitute for the sight and feel of real objects in the human mind. The 'Real Thing' always gives a thrill that can have no comparison. Museums are the only places that collect, preserve and even attractively display of museums, they are bound to stay with our society forever. The mice believe that

'One touch of the Vernal wood can teach you more of man than all the sages can' - Wordsworth.

This paper was presented as a keynote paper alone with a Power Point presentation at the 6 International Colloquium of the Association of International Museums of History at Lahts, Finland held on 29-05-2002. It was read out in absentia, by a Pinnish Lady as the writer could not go due to administrative reasons.

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MANAGING CHANGE IN THE MUSEUM PROFESSION

Dr.R.Kannan, Ph.D., 1.A.S Commissioner of Archaeology and Museums, Government Museum, Chennai -8.

Professionalism represents the qualities typical of a profession. In India, it is loosely used as m equivalent for specialisation. In this paper, we see how the term professionalism has come to mean Normal Professionalism, whath replicates the past and how change is inevitable in any file.

We analyse how the concept of museums has changed from its emphasis on collection and preservation of antiquities in the 16th Century to the present aggressive would of visitor traffic. Rapid technological change has also resulted in quick obsolescence of design and display techniques. Internative displays are now designed to sustain visitor interest. Information Technology has brought in virtual museums to the home on the We. It, is used in documentation, security etc.

Museums were mostly funded by government. There has been a big change to self-financing in USA and Europe. This change has also started affecting India. Museums have to fund the increased cost of new displays and changing the old displays frequently.

The paper advocates managing change using Participastry Approaches to replace the Normal approach. Participation reduces the anxiety factor to a large extent and resistance to change. It aerares how change to be using managed in the change. The arrests how change to be using managed in the change. The change is the change of the visible physical manifestations of Amage, which can be seen in the Chennal and other museum are use of hi-tech technology in lighting, storage, design and consensation of articlets, palm fact manuscripts etc.

The Committee is the device used to achieve Participation.

Committees ensure sharing of information and transparency. The changes are owned by the people involved in the change.

The basic philosophy of spreading resources thin resulting In accepting Second – Best has been replaced by the new philosophy of concentrated application of resources for scaleving the Best. The real change is the Mental Revolution or Attitudinal Change in the personnel.

Introduction

Professionalism is defined as the qualities typical of a profession Profession is in true defined as overalism II (calls for advanced learning like law or medicine, it is a learned profession. It is sow loosely used as an equivalent for specialisation in Indian journalistic parlance. In this paper, we analyse how the emp rofessionalism is noone to near Normal Professionalism, how change is inevitable in any field, how to manage change using Participatory Approaches which replace the Normal approach without compositing on basic values. A circumstance, which is simulation forced or created by

There is see change from the 16th Century concept of maximum of a pick weber valuable miniguies are safely stored to the present day where measures aggressively we visitions by imaginative and interactive new display and outereds activates that to take note of this change brought about among other things has to take note of this change brought about among other things by now technology. It has to use these changes imaginatively for taking the museum to the people so that they continue to be of the other than the continue of the continue to the off for trunties to any cities.

In the Government Musuem, Chennai use of new technology based on the power of the computer and more important training of the staff on this stemborley so that every one uses it has been a very important part of the change. We have used this technology of or e-mail, scenning and storing of photographs on computer, use of these photographs and appropriate software for publications, deligital photography, creating a web site and

digitating the Accession Register in respect of the important And and W grade objects. New types of displays based on replicating international diseages of aboveness, nodern lighting like Fibre Queen and Debtook thatoges, filosoppine gailers, interactive Queen and Control of the Control of the Control of the Control of the prescription of international standards for material used in the display showcase are another part of the change that has taken place. These are physical manufestations of the mental change from blindy repeating what was done in the past to thinking from blindy repeating what was done in the past to thinking from blindy repeating what was done in the past to thinking the control of the control of the control of the control of the past of the control of the control of the past of the control of the control of the past of the control of the control of the past of past of the past of pa

The creation and management of change also extends to the 20 datrict management of change personne and Vitalian site masseums under the State Department of Archaeology. The two departments have been merged under one Commissioner centrily is order to have a holistic approach, which will create synergy.

We analyse how a participative approach, which had to

combined with the conventional Top-Down management approach has been used in the Government Museum, Chemai to bring about a wait change within the limitations of a government militure Drettices from other musers have been also cited in order to analyze how they have managed change or blazed me until. That is in keeping with the PRA approach of learning with and from others (Chambers, 1993).

Normal Professionalism

As a Participator, Rural Appraisal (PRA) professional or practitioner, we feel that every profession has its own set of theories, beliefs and practices. Especially in the learned professions, theories and practices are learner in the clastroom and in the field and handed down from generation to generation and in the field and handed down from generation to generation. This Biosprint approach is based on what Camberler calls Normal Professionalism. It has as it is philosophy that other people are down to the control of the con

The Participatory Approach (Participatory Rural Appraisal approach)

Using the services of learned professionals to solve problems using modern technology in consultation with the people who use the services in a spirit of sharing, is advocated in the PRA approach. The people (museum goers) become equals in 'the process of development' (Rajkumar et al., 1995, pages 3 & 6). Thu PBA has travelled from the rural scenario in other fields.

In the PRA approach, "EMBRACE ERROR" is repeatedly stressed by Chambers (1992(2), p.15) in contrast to the Normal Professionals who like to hide their mistakes under a cloak of technical jargon. This is a major departure from the Normal approach.

The approach is to learn with and from others – i.e. the organisation becomes a learning organisation instead of a smag self-satisfied one Chambers (1995, p.28-33). This smagness is characteristic of Normal Professionalism. History teachs us that people like the Bourbons, who neither learned nor unlearned, nor owner saws by the title of the professionalism.

Change in the concept of museums
Dr. Samuel (Johnnes Dickenny (1755) defines a Museum
sa — a Repository of learned curiosities." The declaration made
in the Copenhages 10th General Conference of the International
permanent institution, is the service of Society's and the
evelopment and open to the public for the purpose of study,
education and enjoymens." A modern definition would be 'a
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declaration and enjoymens." A modern definition would be 'a
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The concept of museums has changed radically from functioning as mere information admiquites with the Curators functioning as their custodinan. Now the role of Museums it to be been considered to the control of the c

mainly in developed countries especially, the USA and to a lesser extent in Europe and U.K. In India, change is slower but surely, we cannot remain static. Or we will meet the fate of the dinossur.

MANAGING CHANGE IN MUSEUM MANAGEMNT

These are days of fast nowing change driven by new theology and new concept of the mission measure. In my paper on Mariem Management (Reann 10: R. 2001), Table on the concept of the mission of the concept of the contraction of the concept of the concept of the contraction of the concept of the concept of the contraction of the contraction of vision to woo selectively the new earliest who concept of the contraction of the concept of the contraction of the contraction of the concept of the contraction of the contraction

There was no article with an expressive title "Marketing Museums — When mechanise earner the turnel; in the Economic (April, 2001). The head of the Guegenheim Museum, New York McChoman. Kreen has put up an enhibition of notercycles on behalf of a German manufacturer and an exhibition of Intains and April 1999. The April 1999 of the Ap

Finance

"Money makes the mare to go is an old adage. No organisation can have any activity without financial resource (Kannan Dr. R. 2000). In the past museums were funded fully for their activities and staff statiries by the government. This was go verament, the 'Creat Provider' (Curris Donald, 1993). In the last decade, this source has been replaced by the Self-Supporting Autonomous Funds generation model. The article cited above (Economist. April, 2001) narrates how state funding for museums has dried up. Mr. Krens of the Guggenheim Museum has started a section of staff whose sole purpose is to attract funding. Other museums have adonted this model in the USA. The museums in Britain are under less pressure like us in India, who mostly follow British systems. But they are also adent at cetting sponsorships like the recent controversial funding of the Millennium dome and the Tate Gallery by business. The change has resulted in there being two Directors for the British Museum, one who is a traditional museum professional in his mid-fifties and the other a marketing cum finance M.B.A. in her mid-thirties from the City of London, the financial hub. This is thus affecting the traditional way of managing museums radically. Museums in India are not affected so far. Their management has come from persons who have risen from the ranks of curators, academicians or the civil service. All these share the same Old World ethos of shunning commercialism. But would they sustain in the new environment? I find that the National Museum has attracted sponsors for special exhibitions like the recent one of Picasso's works. In the Government Museum, Chennai we have had private participation by way of lending exhibits as in the recent special exhibition on Stone Conservation A Museum Publication Fund has been created, which can accept private donations and acts as a revolving fund for funding new books and reprints.It has started attracting funding.

We have raised admission rates. This has not reduced visitor traffic much but generated a lot of revenue. This has also enabled us to cater to a better market segment. Our revenue for Cheman museum alone has gone up from Rs.13 lakhs in the whole of 2001 to Rs.16 lakhs for the 1st ourter of 2002 alone.

We have used the Participative approach while making thesechanges. We have a long way to travel. The atmosphere in India is easily vittated by false allegations. This makes us take one step backward every time we take two steps forward. Naturally, the rate of growth is what Prof.K.N.Raj, the leading economist called 'the Hindu rate - 3% per annum' when he expressed his impatience with the slow growth of our economy.

Change in Management Practices

In the Government Museum, Chennai a typical Top-Down hierarchical approach used to prevail. This is not meant as a criticism since this management culture is still prevalent in many organisations even in the private sector. In order to introduce a Participatory Approach, committees for planning and implementing new projects were introduced. We now see below how we have tried to manage change in the Government Museum. Chennai and in the district museums managed by the Department of Museums. We also shall see how change has been introduced in the site museums under the Department of Archaeology.

Participation through the Committee approach Participation by setting up committees involving

academicians like IIT Professors and even some top class suppliers, who help to draw up specifications by contributing their knowledge, is a key feature in the Department of Archaeology and Museums. There is free interaction at the Committee meetings between the Curators. Engineers of the Archaeology Department, Archaeologists, ministerial staff, suppliers and academia. This free atmosphere is made nossible because there is total transparency in procurement. There is not even a whisper of kickbacks. This approach also ensures spread of the new knowledge among all sections. This also creates synergy.

This approach was to avoid the usual spree of allegations when new projects involving money outlay were taken up. This has succeeded to a certain extent though knowledge of procedures in tenders etc has to be contributed by the Commissioner, who is a finance expert. This Top-Down contribution can be taken as the minimal knowledge input and guidance expected of Top management.

It is found in practice that radical new ideas like new international showcase design, new lighting design, new concepts of management like privatising janitorial services or security do not come out of these committees. This is due to the influence of Normal Professionalism that we have seen above. This stiffes new ideas by undue scepticism. Nothing dared nothing gained. But they help as create ownership of new ideas.

Management Information System

The Chennal Government Museum Journal though revived as means of hairing news and information among scholars and the museum fraternity has become a tool of Management Information, since the work performed in each section by every Cerator, the District Curators and even those with administrative duties like the Assistant Director and the Commissioner is reflected

Introducing change in a non-threatening manner

In the Government Museum, Chennai we have tried to introduce change without making it a perceived threat for any section of the staff. This is the only way change can be brought about in a government department. Otherwise, the person introducing the change along with his/her concepts will be rejected and thrown out. In this context, a Participative Approach appeals more as most of the people are taken on board. This anninger was mostly used, since this writer is also a PRA professional. However, with some obstructionists, limited Top-Down conventional mild threats, comparison with the better performing colleagues and withholding of the limited incentives available like travel grants had to be made. This was most namful for a PRA professional. But normal management techniques have to be used to some extent if better performers are not to feel that there is no difference between a performer and a shirker. The cumulative effect of the changes is drastic, but each change is incremental. Little dronlets the ocean makes.

Government Museum, Chennai - an introduction

The Government Museum, Chennai started in 1851 AD is one of the oldest multi disciplinary museums in India. It has collection sections dealing with Archaeology, Art, Anthropology, Botany, Geology, Philately, Numismatics, Zoology, and Children's Gallery. In addition to the above-mentioned sections, the Museum albo has service sections like Design and Distaly.

Education and Chemical Conservation and Research Laboratory.

Some of the changes like having a Mission Statement, splitting the Core and Non-Core activities and contracting them out have been narrated last year (Kannan Dr. R., 2001). These are privatisation of security, jamtonal services, modelling, making of gallery showcases and display and even some office functions. Some of the changes introduced this year are narrated below:

Changes in Display

The Government Museum, Chennai has more than 45 Galleries. The display in some of the Galleries is more than a century old. They were displayed using the best 19th century and early 20th century British techniques, since museum Superintendents were British who used to go on furlough to

Elegiand. These are in need of renovation. Clean Break in design of showcases and galleries. Curators, were motivated to think about contemporary

showcase and display techniques in foreign Mateurus. Otherwise, the tendency was to replicate the design developed in the 1960s. Some were sceptical. They were asked to think about new techniques in bran-storming assistors. New ideas were introduced by the Commissioner. They were allowed to take root for some time.

Record Allocation of Funds in the Funancial Year 2001-2002

AD

Under the Part II scheme in the state budget in the financial year 2001-2002, the Government sanctioned an amount of Rs.62 Lakhs, the highest in a year in the history of the museum. This was for modernisation of galleries, setting up a new Rock Art Gallery, republication of rare of dpublications of the museums which have gone out of stock, new world class brochures and new books etc.

NEW TECHNIQUES OF DISPLAY

Fibre Optic and Dichroic Halogen Lighting

Last year, after discussions among the Curators concerned.

Lighting

East year, after discussions among the Curators concern

the Commissioner, the young Assistant Engineer, Public Works Department and lighting engineers from Multi National companies, we were able to introduce Fibre Ontic lighting and Dichroic Halogen lamps in the place of conventional fluorescent tube lights in the Contemporary Art Gallery and the National Art Gallery. This is the First Indian Museum wherein this technology has been introduced. This lighting climinates heat, Infra Red and Ultra Violet radiation. Both create a dramatic visual effect. The design and debottlenecking of technological problems was done in a participatory manner. This led to a team approach with all the parties owning the project. This led to successful commissioning despite several initial problems. There was no mutual recrimination or passing the buck so characteristic of conventional Top-Down management styles.

New storage methods like Visual Storage of paintings and Modular Storage of sculptures on the lines of the British Museums have been introduced. This was a result of the Curators having visited London on a scholarship. On return, they were made to show the photographs of storage in the British Museum. From the Photographs, the new methods were replicated. Design specifications were drawn up by the Commissioner and the Curator for Design and Display visiting the Bureau of Indian Standards and the British Council Library. Tender specifications stated exact Indian Standard or British or Euro Standard Numbers for components. Here, the industrial experience of the Commissioner helped. Paintings, which were stored in simple manner in the past, have been arranged in a new method of storage cum display. The advantages are visual display of even the reserve collection besides avoiding scratching and damage In the case of modular design, unlike in the usual rigid structure, sculptures and objects of different sizes and weights can be accommodated.

Holographic Gallery

A gallery to display holograms of bronzes and other rare artefacts has been planned. Though the money was paid to Anna University of Technology for the project two years ago, delivery of holograms has not yet started. This is due to the problems in 85

the laser gan imported from Germany. The Professor is trying his best to make and deliver the holograms. He has succeeded in making insuli taxes only. This shows that when new technology is introduced, there must be sufficient pastence and sociation to accept initial problems in matering the new technology. This cacept initial problems in matering the new technology. This is the control of the control of the control of the control of the histocountry, after both the control of the control of the persons. This is one of the reasons for the poor rate of new technology adoption in this country.

Rock and Cave Art Gallery A gallery for Rock and Cave Art Gallery (pre-historic and

historic period) in the Contemporary Art Gallery, building has been set up at a cost of R.20 Lakhu under Part II of the Plan budget for the year 2001-2002. New display techniques have law to the period of the plan budget for the year 2001-2002. New display techniques have Contemporary of the Plan budget for the year 2001-2002. New display techniques to collect data regarding rock art work. The committee of Central Collegy, the Commissioner of Museums white force at a time along with the Commissioner of Museums wisted rock art size in libergal (Bhamberta and Moream of Man) and the Rock Art in law of Collection affections or specified prock or works.

- Next to the collection of information a Design Tender was called for this work. In the design tender three options were given.

 1. Design Tender could be displayed as a virtual tour so that the committee could see the proposed vallery in the
- computer.

 2. A miniature 3D model of the rock art Gallery might be
 - produced
 3. Diagrammatic Representation may be produced.

All 3 types of tenders were received. Out of this, the committee choice diagrammatic representation, since it reflected best what the committee desired to have in the gallery. Based on this design, an open Tender was floated and the Tender was finalised by the committee, The results were also published. The successful Tender was saked to finish the work whithin a specified

This gallery has a with through Directon for a length of paymentanely (100-5), and a limited such cere of small stree. Perchastric root are paintings reproduced on liferglass such and the cere of th

Showcases conforming to the latest international standards The Commissioner saw a catalogue of showcases from an

international supplier. He suggested a clean break with past technology by adopting this design. The showcases were published to the contrast of the contrast of the contrast of the cutting edge technology were constructed by the Design and Diplay Centers and a few other Centers, who were formed into wear to the chapse the contrast of the contrast of the contrast wear to the chapse thing imported hardware, the Bernard (fallond Standards and the British Council: The Commissioner used the opportunity as a member of a Commissive of the Indual Institute of Technology to discuss and contact such that-che suppliers. After discussion, the approximation are contrast on the contrast of the discussion, the approximation were dress up The Indual

 They have float glass on all sides – to ensure total visibility and excellent looks.

2. They will be lit by Dickrolc Haloges Lamps with electronic transformer. Bo Diceans showcast, white, yellow and sky blue coloured tubelights appropriate to the background have been prescribed by the lighting engineer of an MNC. They are tw-lightly, which are brighter than the ordinary tubelights. For uniform diffused lighting, 0-40 grade translucest acrylic sheets have been used.

- They will open using Glass to Glass hinges, which are imported with BS or Euro Standards with numbers. There are no Indian models
- For electrical work and fittings superior quality is ensured by prescribing IS and BS Standards with numbers.
- All metal parts used are stainless steel, Aluminium or anodised steel.
- The base punels of the showcases are made by MDF Marine plywood or anodised metal with IS/BS standards and
 - certificate.

 7. Air vents at the bottom to let in outside air and a small exhaust fan have been provided. Otherwise, the glass will break due
 - to heating of the air by the lamps.

 8. Silica Gel bags have been provided in a compartment at the bottom to de-humidify the air, since humidity is high in Chennai.
- 9. In Diornma showcases, photographs on visyl will be used. This will simulate reality as can be seen in some advertisements. The sizes of the showcases have been changed from the usual for height to 8 ft and 6 ft depth to 12 ft. height and 10 ft. breadth mega size to make it look. reall. Hylam sheets are used mixed of conventional phywood for durability and avoiding emanation of harmful gases. Yellow Tru-lights give a pleasing lighting effect.

An amount of Rs.5.51 Linkh was sunctioned under Part II Plin for the year 2001-2002. The allocation of showcases is 8 Showcases for Government Museum, Chennal, 3 thowcases for Government Museum, Maduria and 2 Showcases for the Site Museum of the State Archaeology Department, the State Archaeology Department, since the merger of the departments of museum and archaeology under our Commissioner enabled the common use of now

Children's Museum

The Ground Boor Dolls gallery of the Children's Museum has been recognized at a cost of Rs. 50 flush in the financial year 2001-2002. AD. The existing gallery was having wooden showcases and due to heavy mosture content in that area the showcases did not last long. To give a new look to the display, the showcases have been were made with Aluminium frames and rine sheets cover the back instead of gly wood. New labelling techniques have been sweet mit its sullery.

CHANGE IN THE BASIC PHILOSOPHY OF THE DEPARTMENT OF MUSEUMS

The accent has changed from quantity with which we are usually pre-occupied in India to quality. There is a conscious decision to concentrate resources to achieve the Best and not spread them thin resulting in Second-Best.

District Museums There are 20 E

There are 20 District measures under the control of the proposal of Messach. The care from very by measures the local people. Some of them like those at Kawykamar or he benefit of the property of the control of the property of the control of the

Site Museums

The Department of Archaeology has 17 site museums. These were set up at places where important excavations had taken pines in the part. They continued due to insuris unity a s. suff. continued the continued to appear the other continued to appear the co

RENEWAL AND RENOVATION

Campus imprevement at Egamers, Chamail
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R., 2001). This plan is being put tool implementation. Learny
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on by the Crafts Council of India see some of these inflatives.
The forting period of the composed will will be in neurostate
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that th

Removation of the heritage buildings like the Pantheon Buildings and National Art Gallery by using the expertise of the Archaeological Survey of India and hiring retired ex-ASI personnel recommended by them is also being executed. The budget is a whopping R.4 crores. Amaravathi Gallery Reorganisation

Some of the Amarwath limentone colptures, which are below high level, how been undergrain descriptions at the base for the past decade and more due to esmosis. They were medicated not been used to be consolist. They were metaded in the walls 10 years age, secently, it has been decibed to remove and redisplay them according to modern the laterational Seminars or Conservation of Stone Object conducted by our department and also the joint IIT-Max Meeller Bhavas senimars. Several international and intensive and conserved with our approach. Text removal of their periods has been completed. The west he bring given by the third period of the period of the completed of the west is being done by the

USE OF INFORMATION TECHNOLOGY

envisaged in theory is working out in practice

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Web Site The Honourable Minister for Education, Government of Tamifinadu, inaugurated our Web site on 18-12-2001. The Optical Carrier Band - III (OCB-3) Server based in USA is one of the fastest in the world. It contains 1400 pages of A-4 size corresponding to 122 Megabytes of electronic size. There are 52 files less than 250 Kilobytes. 15 files between 250-300 KB and 118 files of size greater than 200 KB, the total number of files being 185 files in HTML format. In addition there are VRML files for the Virtual Tour of the Bronze Gallery, Slide Show and Video Clins. The Clins have been provided in two bandwidths low for Indian viewers with ordinary telephone line connections of usually 33 KBPS capacity though the moderns are usually 56 KBPS and high for ISDN Indian viewers and foreign viewers whose bandwidth goes up to 2 MBPS and more. It is one of the largest museum web sites in the world. The Commissioner and Curators worked till 8 to 9 P.M. daily for a year to provide matter and photographs for their sections.

Publications

We have been very famous for our publications, many of which are more than 130 years old. Many of the publications in course of time went out of print. Worse we did not have a list of our own previous publications. Many of our titles have been reprinted without even an intimation by Associated Educational Publishers, after expiry of the Copyright period. We accessed the list of our old publications from the British Library web site. local sources etc and have brought out a comprehensive list on the Web site. Therefore, tightening of systems is a nositive fall out of the use of electronic systems. But a word of caution is that this depends on the uncompromising commitment of Top Management to quality. Any organisation like an army is led from the top. Good staff is no doubt a great asset, but the best army with moor generals fails as history has taught us. More than 250 publications are included in this list. Steps have been taken to reprint the publications, which are out of stock. This year we have republished old books, brought out new world class brochures on the museum as a whole, the naintings gullery, the children's museum, the conservation gallery and the new Rock and Cave Art vallery at a cost of Rs 10 lakhs. Two brochures were privately sponsored.

Electronic Documentation of the AA & A Grade Objects The software supplied by the National Informatics Centre

The software supplied by the National Informatics Custer approach the called by systematic approach the more than 80,000 artefacts in the Chennas imaseum. It also mabbles quick access and retrieval of the data of the computarised Accession Register. The AA grade objects are about 2% while the A grade are about 2% of the contract of the contra

Digital photography and storing of palm leaf manuscripts on electronic media

After the Oriental Manuscripts Library came under the control of the Commissioner, it was found that the palm leaf manuscripts were being deciphered using age old manual methods. This resulted in coverage of only a few manuscripts every year. The manuscripts deteriorate, since despite the best preservation, everything in this world deteriorates, Digital photography of the manuscripts using the camera in the Chemaii misseum and their

conversion into CDs has started. This will also ensure that the original writing is available to scholars. This methodology is proposed to be extended to inscriptions doing away with the conventional method of taking estampages, which sometimes damages some key letters in the inscriptions. This will also avoid the problem of storing the esptampage paper without deterioration. Limited resources are enough to cover a large number of manuscripts and inscriptions. C-DAC, Bangalore has also been contacted to scan the manuscripts using huge overhead scanners, store and sell them as CDs. This methodology has been extended to the manuscripts in the Chennai museum. This is another example of synergy at work. This change is not the usual incremental dose but a clean break with the past. The pace of change was blitzkrieg.

Communication amoné calleries was a major problem. Therefore, an intercom system has been installed.

Electronic Surveillance and Control Room for Galleries The Chennai museum relies on gallery goards for its security. This method cannot cope with the security problems of the 21st

Century. A central control room operating electronic video camera surveillance units linked to a computer has been proposed and is likely to be sanctioned soon. Rs.80 Lakhs has been sanctioned by the Government for this purpose.

In this paper, we have seen how the concent of museums has changed from passive collection and preservation of antiquities to appreciate whome of visitor traffic. This involves new approaches to museum design, display, outreach and other activities of museums. The rapid rate of technological change has also resulted in fast obsolescence of their design and display techniques. The accent is on interactive display to sustain visitor interest. Information Technology has brought the museum to the living room through the Web. They have had an impact on all aspects of museums. Museums were mostly funded by government. There has been a big change to self generation of funds in USA and Europe. This change has also started affecting India Museums have to fund the increased cost of new displays and changing the old displays frequently. All this change has to be managed smoothly if they are not to be sweet away.

Professionalism is usually equated with Normal Professionalism, which tries to replicate the past. The adoption of the Participatory Approach (PRA) in the Department of Archaeology and Museums of the Government of Tamilnadu has enabled everyone to involve in the management of the process of change Participation has alleviated the anxiety factor to a large extent. This has reduced resistance to the minimum, Sharing of information is minimum in the Normal Professions. The Committee Approach has ensured sharing of information. transparency and that everyone is on board. The changes are owned by the neonle involved in the change. This feeling of ownership is unique to the Participatory Approach. The basic philosophy of spreading resources thin, accepting quantity for quality, creating staff positions and recruiting without adequate resources to perform the 10h for which the position was created. tight control over physical activity like making staff write diaries which itself consumed valuable time are all characteristic of the old approach. This resulted in accepting Second - Best as the ontimum solution. The new philosophy is to have fewer staff backed by large resources, freedom to function but accountability to pre-set organisational objectives. All participate but the Top-Down part of Top Management remains to ensure that the overall organisation plan is achieved and individual components mesh and merre into this over all vision. The real revolution is Mental as F.W.Taylor, the father of scientific management called it 80 years are or Attitude Change as Chambers refers to it now amone the museum personnel

The physical manifestations of the change are seen in all the faces of the working of the department, Andytien of a Mission Statement, a long term policy plan, short term plane obversible into the long term vision, use of hie-cle schoology in lighting time to leave the control of the contro

There is nothing static, even change itself changes. We strive to manage it so that we are not overtaken and made irrelevant but continue to have our place under the sun. That process never ends. As Lord Tennyson writes in Ulysses, 'To strive, to seek, and not to yield till we succeed' is our motto, We cannot rest

'The woods are lovely, dark and deep,

But we have miles to go before we sleep' - Robert Frost.

(I acknowledge the help of the Curator for Design and Display Shri J.R. Asokan, the boatswain of our boat in this voyage on the sea of change)

This paper was presented along with a Power Point presentation at the Annual Conference of the Museums Association of India held at Bhopal on 03-03-2002 as a theme

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CANNONS OF PUDUKOTTAL AND TYAGA ĐURG (NEAR KALLAKURICHI)

Dr.R.Kamnan, Ph.D., I.A.S. Commissioner of Archaeology and Museums, Government Museum, Chennal -8.

Introduction

In the book Documentation on the Cannons in the Government Museum, Chennal (Markay published as a Billetin of the Government Museum, Chennal, this writter has documented the cannons in the collection of the museum and also those on loan. The book appears to be the first documentation exclusively on enances in the world. It appeared before the Indian Army's documentation was published (Chatterjee, S.K., 2001). The Army Israes Taminiland to be covered by the Chennal Markay Chennal Chatterjee, S.K., 2001.

In the hole published in 2000 (Channa DR.R. cl.), 2000, in the prefection wave flexibilities for excent for Gramma in the prefection wave flexibilities for excent for the prefection of caments from the circuit relation of the prefection of the prefet prefer prefet pref

This writer recently visited Pudukottai and saw the cannons in the Government Mescum, Pudukottai. At the invitation of the erstwhite Maharani and her soo, he visited the Residency Palace, where he saw very interesting British, French and Padukottai pieces, some of which were embassed with coast of arms or had

engravings on them. This article describes in detail all these pieces. Their photographs are also presented here - after all seeing is believing. The cannon in Tyaga Durg is also interesting since it also belongs roughly to the same period. It is also described below

Cannons in Pudukkettai

1 Accession Number (Acc. No.) - An-C/1 200 Cms (Centimetres) Length Girth at buse 67 Cms Girth at tir 45 Cms

Opening (dia

Acrn No An-C/I Bronze - Inscribed as 'Raghunatha Banam' - Brought from Pudukkottai old palače armoury.

Towards the close of the 17th Century AD, the Pudukkottal Tondalman, erstwhile Raiah of Pudukottai, was helping the Navak rulers of Madural in their wars. The Tondalman Chieftain Raghunatha Raya Tondarman was responsible for the many

victories of the Nayaks. He brought many guns and cannons as war trophies. One of the cannons was named as 'Rarhunatha Banam' and given to the Tondaiman. The Tondaiman family keet Inscription - Racherotha Barott in Grantha script



in Toroid scrips it for generations. Towards the close of the 17th contury, the King of Travancore took advantage of the unsetter adstires. Mangamani, the Queen Regret of Maderia, then seen a large army in 160% against thin. Once of the distinguished leader of that victorious army was Replanathe Rays Tondahama, who manufact of places are farmed with because gas as resplaced of the war. One of them is this Raphasatha Banana, evidently named after the Tondaman Chembardship that places are the seed of the war. One of them is this Raphasatha Banana, evidently named after the Tondaman areas arms. The world for wardly associated which was not to be a seen of the seed of t

2. Acca.No. An-C/2 Length : 119 Cms Girth at base : 47 Cms. Girth at tip : 29 Cms. Opening (dia) : 5 Cms.

This cannon is made of bronze. The coat of srms resembles that of the Dutch East India Company (VOC in Dutch) Despite contacting even the Dutch Accs. No. An-C/2

Archives, I could not get a direct deciphering of the Coat of Arms. Initially, it was thought to be the Coat of Arms of the British East India Company, But I was not convinced. The medal issued by the British on the occasion of their victory over Tireue Saltan in 1794 AD gave a clue. Then



British Emblem

















Cost of Arms of

the corn issued by the Dutch East India Company in 1728 AD and the historical account that Toppo bought cannons from the French and Dutch, which were seized at the fall of Seringapatam is another piece of information that is meaningful. I compared this coat of arms with the Dutch Coat of Arms of the House of Orange, which it

closely resembles. The difference is in the Company in the Dutch coat of arms while in our piece at its 2 piece was stated with a lion in the Dutch coat of arms while in our piece at it is 2 piece with a concorous on the. The cost of attest, "Crescent Concordis" are passed concord with the Crescent is. Mailim powers. Therefore, at has to be concluded beared on circumstantial cubece that the cannow was made by the Dutch for Fippy Solitan or Chanda Shieh. If it was far Chanda Shieh, it would have been captured by Vijeys and far Chanda Shieh, it would have been captured by Vijeys to the Butte of Tasjore in 1734 AO. This conclusion appears more believable became the coin was traceful or 1734 AO. Pilsto Gustale.

Parmenwarial (translated by A.Kazhandah), 1975, S. No.232. Patie XXXI, Boweev, if it was Thypis' cannon, in night have been secured by Vijaya Raghusatha Todadaman (1789-1807), who fought with Topps and secrent of it as a present. It was brought from the old palace armony. It has four reinforcing mag. The Marathi inscription is Moch sorph shamed by "it of the particular of the particula

2

Maratha King of Taniore had four such pieces, this being the second piece. The cannon weighs 90 kgs. I Maund of Trichnopoly, Carnatic is 13.114 sers, 1 Ser for metals is 4176.7 ems (Prinsep, James & Edward Thomas, 1995, p.120). This converts accurately to the Hand weight. 147 Cms

3. Acen. No. - An-C/3 Length Girth at base

52 Cms. Girth at tip 40 Cms



This is also in bronze There is no mark or inscription. It was brought from the old palace armoury. It has four reinforcing rings.

Acc No An-C/I 4. Acen. No. An-C/4

Length Girth at base Girth at tip : 22 Cms. Opening (dia)

127 Cms. with a tail rod of 35 Cms. 37 Cms. 4 Cms It is made of bronze.

It is said to be a Dutch annon, which was in use in the 17th Century AD Instead of the usual blind

Accn. No. An-C/4 base, the base is opened and a tail like rod (cascabel) is fitted into the hole. This was also brought from the old palace armoury. The trunnions are short

and of even size 5. Accn.No. An-C/5

Length 138 Cms Girth at base : 76 Cms. Girth at tin 52 Cms Openine (dia) : 9 Cms.

This is made of Iron. The finish is crude. It was beought from Padukkottai Jail. It has four remforcing rings.

6. Acon No. An-C/6 Length : 147 Cms

Length : 147 Cms Girth at base : 60 Cms. Girth at tin : 37 Cms.

Girth at tip : 37 Cms-Opening (dia) : 7 Cms.

This cannon is also made of Iron. The finish is better than that of Acc.

Acen, No. An-C/6

the Brahadambal Temple, Accn. No. An-C/6
Tirugokarnam. It has four reinforcing rings.

7. Acen.No. An-C/7 Length : 100 Cms. Girth at base : 46 Cms.

Girth at tip : 27 Cms.
Opening (diameter) : 4 Cms.

This is made of Iron. The finish is very good for an iron piece. It was brought from Tramayam Fort, It has four

Acen. No. An-C/7 Triumayam Fort. It has for reinforcing rings. Th trunnions and cascabel are typical of such cannons.

8. Acen No. An-C/8

This is made again of Iron. The dimensions are the same as that of SI

No. 7.

Accn. No. An-C/8 (small)

9. Accn.No. An-C/9 (small)
Length : 84 Cms.
Girth at have : 45 Cms.

Girth at tip : 29 Cms.,Opening (dia) 4 Cms.

This cannon is made of from It was brought from Tirumayam Fort. It has four reinforcine rings The trunnions are slightly long.





This is also a small iron

Accs. No. An-C/10

cannon. The dimensions are imilar to SLNo. 9. It is also tht from Tirumayam Fort. It as four reinforcing rings. The cascabel is like a flat knob.

Cannons In The Residency Palace



English Causen - 1



English Canson - 2



English Cannon -1



11. In the Temple Mandapam:

Lengtb 168 Cms.
Girth at base 78 Cms.
Girth at tip 47 Cms.
Opening (dia) 11 Cms.

The emblem and crest is of the crown with 'VR' for Victoria Regina (Latin). This means Oueen Victoria in English. Cost of Arms on the Cannon - 'Honi Soit Qui Mai Y Pense'- Shame be to him who evil thinks' is the motto of the Order of the Garter, the initials K.G. (Knight of the Garter) are used by the recipients of the honour (Fairbairn, 1905, p.36 of Part II - Mottoes). But this is also found in the Coat of Arms of the British Sovereign, which is shown above. The name of the person 'A Broome' appears to be the name of the Colonel of the Bengal regiment of the British Indian Army. This is borne out by the reference to Col. Broome's History of the Bengal Army in a book from the archives of Connemara Public Library, Chennai (Busted H.E., C.1 E., 1908, p.22). The book has an introductory letter by Lord Curzon, who styles himself Curzon of Kedleston. In Victorian England, it was the fashion to use Latin, the classical language as the court language and language for important work. Similarly, it was the fashion in the native states of India to use Sanskrit and Persian. There are two cannon carriages in the Government Museum. Chennat (Si Nos 31 & 32. De Kannan R. et. al., 2000, n.10) which bave the inscription 'A.Broome, Gun Foundry, Cossipore' on

them. SI No. 32 was taken at the fall of Seringapatam in 1799 AD from Tippu Sultan. The undercarriages and the pieces are not related. The exact time when the transposition took place whether at the time of their use in battle or after they were brought to Madras (Chennai) by the Royal Indian Army is not clear. They seem to have been received from the Superintendent, Madras Arsenal in 1894 AD. They do not seem to have been transposed in the Museum, since the Accession Register of 1934 AD (book printed on 23-8-1934) records it as the undercarriage

The year of manufacture is 1860 AD. The number of the gun is 996, since D=500, C=100, XC = 90, and VI = 6, adding we get 996. This is also written on the knob in Arabic numerals. Each piece was carefully numbered and guarded. This was, as seen, above, due to the fact that these long range guns held the key to the surremacy of European arms over the native forces. which were not equipped with these weapons.

12. In the Temple Mandapam: Length : 168 Cms Girth at base : 78 Cms. Girth at tip : 47 Cms. Opening (dia) 11 Cms

Bronze - with cost of arms - Year 1862 - This is similar to the piece above (SI, No11). On the knob like projection at the base, the number 955 is inscribed along with directions as in the piece above - '5E, 3=24=12'. This could also be a similar notation as discussed above. The number is inscribed in Latin 'DCCCCLV' i c. D-500, C-100, L-50, V-5 - i c.955. The name of 'H.H Maxwell, 1862. Cossinore' is inscribed. On one ring on the cannon is inscribed 'H.H.Maxwell - 1862- Cossipore'. On the other ring is inscribed 'DCCCCXCVI' i e.996. The inscription indicates that the cannon was commissioned by Maxwell, who might have been from the Bengal Army or the Superintendent of the Gun Factory at Cossipore, near Calcutta (present Kolkata). The factory even today produces guns for the Indian Army. Like Broome, Maxwell must have been the Colonel of the Artillery Regiment or the chief of the Cossipore factory, the gun has been manufactured in 1862 AD. The crest is the same as in the niece above, i.e. motto and 'VR' i.e. Victoria Regina







in the Residency Palace



French Cannons

13 & 14. In the Front Verandah Length : 164 Cms. Girth at base : 65 Cms.

Girth at tip . 46 Cms. Opening (dia) 10 Cms.

Bronze - placed upon a lion pillar (stone)

2 Nos. Both are similar in workmanship - year of manufacture

is 1719 AD on both. Both have four reinforcing rings.

The coat of arms has ducks or more likely swans, with crosses forming an inclined grill pattern. The two lions shown are 'Lion

The cost of arms has ducks or more likely swams, with crosses correcting in inclined gain planets. The two floats shows are Line to the control of the con 1915 AO (Incyclopedia Grond Larows, 1994; p.149). These was excessed persons from the base of Earlies, who were located persons from the base of Earlies, who were blanched or spirit an impossion of the canada natures down or search. The accesses and sported from the Larows natures down or search. The accesses adoptively are sinsing on the interciplent does to the Lain rejet adoptively are sinsing on the interciplent does to the Lain negle adoptively are sinsing on the interciplent does to the canada natures down or secretary on the projection on the right shill believe that could result to the control of the canada nature of the laidy quality for faith and the canada nature of the laidy quality of the canada nature of the canada nature of the laidy quality of the canada nature of the canada nature of the laidy quality of the canada nature of the canada nature of the laidy quality of the canada nature of the canada nature of the laidy quality of the canada nature of the nature of th

Fecial is Jain for mude is, the cannon was manufactured in 179 AD. St.Hebbert is a small town in present Belgium in Lummburg, it is at the heart of the forest of Ardenass. The forest is morely in France (Sovorale Encyclopedage Bordes, 164), 1899, p. 6915). This cannon was mude in this town as the inscription includes. "Repri: 1 me 1750 (relation is the year 1750) includes that it was lost in war and retakes in 1750 AD. The flower in the count of arms in the finone There of the in Tyranse. It also occurs out of arms in the finone There of the in Cyranse. It also counter of the country of the country of the country of the office of the country of the country of the country of the office of the country of the country of the country of the country of the office of the country of the country of the country of the country of the first of the country of th

One of the cannons from the inscription in French translated into English, "Residen in 1709 Spepars to have been lost in shift by the French between 1719 Seat 1750 during the Anglo-French waves in the Circuits between 1714-750 and ortisten by them in the war of succession between Chanda Sabib and Muhammad Ali in one of the bustle between the two. But both papers to have been won from the French by Vijaya Raghmatha Raya Tondaman (1738-1749 AD) at the butter for Tajories between Luly's forces and the Raja of Tajorie in 1758 AD, it is recorded Chanda Sabib Additional Chanda (1738-1740) and the Chanda (1738-1740







262 Cms.

15. Iron cannon Length

Girth at have Girth at top 89 Cms. Opening (dia) 12 Cmr

16. Iron cannon

Length 255 Cms. Girth at base 112 Cms Girth at tip 90 Cmr Opening (dia) 12 Cms

All the above cannons were kept previously in the Pudukkottai old palace armoury. All the iron cannons are locally made. They do not have serial numbers. They are crudely made. The dimensions also differ from piece to piece. This shows lack of discipline in manufacture. They are also not as powerful as the foreign made bronze cannons. This shows how superiority in fire power manufacturing technology and discipline translated into the critical criteria for political supremacy over India.

SI. Nos. 17 & 18.

Two Cannons at Tyaga Durg, near Kallakurichi, Villupuram District

Measurements - Not possible to measure due to inaccessibility.

This is a historic fort on the Ulundurpet-Salem Road. It is difficult of access. It is considered to have been built in 16th . 17th Centuries AD by the State Archaeology Department. It was captured by the French in 1756 AD and in 1760 AD by Hyder Ali. Later the British captured it. In 1790 AD, Tippu Sultan captured it back from the British and made it his military centre. After his defeat and death, it was permanently with the British, There are two cannons here which have fallen from the high ramparts of the fort into the rocks of the hills below. It is not possible to go near them. It has been possible to photograph only one of them. This has been done from the fort above. The cannon carries a crest of the British Crown with the inscription , which reads 'G2R', since George II was the King of Britain during the period (period of reign 1727 - 1760 AD). But 'G' is not clear. 'R' alone is clear. It stands for Rex in Latin, i.e. king in English Only the cascabel is visible. The trunnions are not visible. Cannon in Chennai Museum







Inscribed - 'S Lorenzi

108

nairos versios. The correct version as given an the royal emblem of Holland, the Blouse of Orange is "le Manistendra". The cannon in Chernan Mascum (Acc. No.1946, SI No.29, Kannan Dr.R. et al., 20000, p.10) has the word "S.Loreno 'crudely inscribed. This refers to San Lorento de El escotial, the framous palace and seate of King Philip 1 of Spain completed in 1584 AD [Spain, 1986, p.61). There is also another inscription as a paragraph, which is not so castily declinerable.

Conscryation of Cannons

It is necessary to conserve cannone since the metals will deteriorate over time. It is said to see to many hattone cannons deteriorating and lying neglected all over India. This is more so in the case of Iron cannons. In Chennal Museum, we are preserving the cannons for the last three years. This practice was started at the time my book (De Kannan, R. et al., 2000) was written. We have used this method recently in the site museum of the State Department of Archaeology at Transpetcher museum of the State Department of Archaeology at Transpetcher

A mixture of Cocosut OII, Kerostee and white liquid Peratiffi Wax is seed for this person: The proportion of the improfesser are a secret and told to us by Shit K. TNErssenham. Separatesching Architecologist, ASI, Centum Circle: He may be Separatesching Architecologist, ASI, Centum Circle: He may be Kerostee and must be maxed theorophly and then occoust oil is added and mixture dive with the above mixture. This instruct as applied with centum waste. First conting should be done with the mixturest Beharly New Second counts; has to follow according to the condition of the canson. Then, the treatment is repeated once in the mixture should be content insearch. The nature sends to could a first market Becaulty New Counts insearch. The nature sends to could a nitro most like October insearch. The nature sends to could be a first market for Counts insearch. The nature sends to could a nitro market for Counts insearch. The nature sends to could the condition of the counts insearch. The nature sends to could a nitro market for Counts insearch. The nature sends to could the counts of t

Conclusion

This article shows how the European powers gained supremacy over the numerically far superior laditan armed forces by the use of technology, better organisation and discipline. They ensured that they had cannots with long range and heavy firepower which could crush huge native forces without coming to any harm themselves. Inserration of their emblems and cost of arms helped in their identification. It also terres to those the importance, which they gave to the ting pass (attiller). Their careful incentory control by membering each hig gan, knowing its location and in whose castedy it was shown how carefully and araisolay they ganded the source of supermey. It was this superior expansional, discipline and capacity to move forces quickly over distinces that ensured power projection as the right speep at the right time, in this, the British weem one successful than the French. Of course, they were better masters of integers of the control of the

It is sad to see the historic cannons being neglected and deteriorating in several places. In Chennai Museum, we preserve the cannons through our conservation methods. This helps to preserve them for posterity, which is the first duty of a museum.

'A thing of beauty is a joy for ever'- Keats.

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NEW RUDDHA SCULPTURE FROM PUDLIKKOTTAL Dr. I. Raizmohamad.

Curator, Government Museum Pudukkottai

A new Buddha sculpture hass been discovered near Manameleudi in Pudukkottai district. The massive fine Chola period sculpture is about 4.16 feet height can be dated to 10th century AD.

The highly stylized sculpture of Buddha seated crosslegged in vajaraparvanka asana, an attitude of meditation and hands placed in dyana nose. The head is surrounded by an astreole of flames with medallion at the end(the right side is slightly damaged). The head is surmounted by a pointed flame known as usuisa, the symbol of enana, while the bair is ornamented like studs. The nose, eyes, lips and other facial parts are well chiseled out. The ear

on Tamil grammar.



Though Buddhism was well spread in the coastal towns of the former Thaniavur district in the medieval period, no Buddhist vestiges have been reported so far in this part of coastal helt Ponnarri(modern Ponnethi) an interior village in Avudaivarkovil taluk alone find place in the map of Buddhism where a small Buddha idol has been found. Ponparri is the birth place of Buddhamithra the author of Virasolivam an eleventh century work

The Buddha sculpture has been discovered and recorded by Dr. J. Raiamohamad durine his field studies on the maritime trade of this area. The carved side of the idol was buried in a paddy field for a long time, the exposed back surface was play field for urchins, when turned, found to be the sculpture. Now the idol is placed at Pudukudi village in Manamelgudi taluk. According to local tradition the site where the sculpture is found is called "scena hidal" the ground of Chinese. During the medic-up period there was a sust trade between China and South India, and Coylon. Nagapastiman was one of the important trade center of the Chinese and there were Bindhu states and Chinesia traders states and the contract of the contract of the contract of the silk route, would also had been a Chinese trading center. The sculpture would be the remains of a Buddhist whate Requested by Chinese traders and later Talleri in to decay. Chinese procedual and naciest posteries such has been collected from this site. The

Pudukkottai district has a stretch of about 40 km length of coastal line which as studded with more than twelve minor ports in the 17-19th centuries and were in active maritime commerce with Cevlon and other ports of South India, as gleaned through the archival records of the European trading Companies. The excess produce form Thaniavur granary found way to far off lands through these ports. It is interesting to note that Manameleudi nort was an export point for paddy and rice through ages as attested by the inscriptions in the area and was called 'rice port' in 13th century. The finds in the site, the inscriptional and archival evidences about Manamelgudi leads us to infer that the ancient port Saliyur (as Ptolamhy calls) (Sali - paddy in Sanskrit) and Nellinur, as described in Maduraikanchi of Sangam neriod, could have been in Manameleudi nort region, most probably between Manamelgudi and Mimisal and these places are nearer to Thonds, the celebrated Pandya port. Dr. J. Raja Mohamad has undertaken a detailed investigation on the maritime trade history of the meion and further findings may throw new light on the history of Tamilnadu

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A SPECTS OF STUPA

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The word 'stuna' derived from the Sanskrit root 'stup' to collect and means a heap or mound. It also means a monument held in veneration when it is connected with the root 'stu' to foraise. The term stupa actually designated a mount shaped structure typically containing the asbes or other remains or representations of a saint. Although known primarily as a Buddhist monument, the stupa and its cult may be traced to a variety of are-Buddhist influences among them the erecting mounds over bodily relies; the cult surrounding the death and cremation of the Cokrovertin (universal ruler), and various elements in the worship of deities in India. These stupas or monuments are not exclusively Buddhist. The stupa was equally important to the Jain. The early stupa sculptures from Mathura are famous Jain examples of this type of monuments that are not so different in shape and structure from those of the Ruddhists of that Age. In the classical Age, the stups provided a symbolic and ritual focus of the Buddhist cult of saints. The nurticular importance of the stans in the cults of the saint derives form the fact that once ritually empowered in an important sense the stand was the saint although by now the body was composed of mortar and bricks rather than flesh and blood. Bensits in reference to the Buddhist stapa remarks "directly identifies the stapa with the body of the master". It has been often pointed out that in early Buddhism there are no images of the Buddha and in speaking of the early period has corrected this view. "There are no sculpted figurations of the Buddha but there is the grung his mystical body. In other words although there are no early pictorial representations of the Ruddha there is from the earliest times the stups itself, understood as a monumental image of the body of the Master, the Buddha. The sculpture becomes a substitute for the enhanced body of the dead nerson where his mystic being continues to exist This identification of stupa and body of the according to Hulen-Tsang on a certain occasion, two merchants worshipped the Buddha and he gave them some of his hair and

nail parings. When they asked how to worship these, the Buddha said, "making a square pile of his samplari (lower robe) laid it on the glound and did the same with his sutrarange (outer robe) and his sanekarchchiftsom (the robe which goes under the arm pit) in succession. On top of these he placed his bowl inverted and then set up his membrant staff, thus making up the top (srupe).

In other words the leterity of the stage with the physical body if the Budden is and seen in the composite tradition, in the body. The ground where the stage is built in suderstand as Vaginamen, the cast of englightfulness. The base of the stage is designed to the stage is built in suderstand as Vaginamen, the cast of englightfulness of the base of the stage certain axis as its spiral core and the harming as his local. Thus exceeding to Stongers, "The leterification of the stage and the certain size is the stage of the stage and the stage of the stage and the leddin inegar as interestication." Thus the stage the stage of the stage of the stage of the stage and the table is strong present in continuous theory, and subsequently the stage of the budden strong present in continuous there, and albeing the stage of the

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TWO UNIQUE MEMORIAL STONES IN THE COLLECTION OF THE GOVERNMENT MUSEUM, MADURAL

P. Sam Sathiaraj, Curator Government Museum, Madurai

Introduction

Introduction.

Introduction of the property of

The hero cult and pattini cult are deep rooted in Indian tradition and they are reflected in Indian classical as well as folial literature. The memorial stones are found all over India and they present a variety in their form and plastic detail, but we also see certain usilforming in these forms.

The most common type of free stone or memorial stone is in free standing one, because of more free scalequered figure or scene with an explanatory inscription. The sculpture may be crude or highly finished or be a caving of a single person or a scene inscription may be a more label or may contain an elaborate collegy in reconsidery erres. Some here rotes are intimately connected with the common man but mostly they commonement the values of the first person of the common may be a support to the common may be a support to the present such as the relative to the common may be the may be a support to the relative to the common may be the present and the present the values of the first person of the contract of the contract of the lower stones were created in honour of Royal Officers who died Memorial stones were not only crected for heroes but they were also erected for pet animals laid down their life, or for animals like elephants which died valiantly in a war. We have commemorative lithic records, which were crected in memory of war and pet animals and also for heroes who sacrificed their lives fightung with hounds and wild animals.

Memorial stones were also erected for servants who died or sacrificed their lives for the sake of their masters. Sculptural representations of self-sacrifice by cutting their own heads with a sweed are also common in many parts of Tamilanda especially in Dharmaguri districts. In religious terms this is known as

Satishal or Meatiskal (Sasi stones) are found in larger number in Karastaka. Mostly the stone consists in bus-relief a single arm stretched upwards and stacked to the pillar. The raised arm modif is the most important element in the Meat sculpture. There can be one arm (only fall meath); to we trust (rends ind meath) or her can be one arm. Sat in may be the solvown a full standing tigure with realist carm or arms. Other San and bloom symbols are depotted

Memorial Stone from Varshanad The Government Museum, Madurai has a

The Government Museum, Maduran has a good collection of here stones and memorial stones, mostly collected from Middrai district and the nearby districts, through the Treasure-trove Act and also from surface collection. Among them a memorial stone from Varshasad of Them district, Tamilinadu is unique in form and scultural details.

This memorial stone is a rectangular pillar, 8 ft high and 2 ft, wide. From the style and sculptural details of this memorial stone, we may assign this to about 17th Century A.D. This is a six-deced memorial stone. Relief sculptures are seen in all the rices.

six-tsered memorial stone. Relief sculptures are seen in all the tiers.

The first panel or the bottom panel shows a lady in the centre carrying a milking pot on her left hand and the right hand carries an object, which is not clear. On her left side a row giving milking to the clear.

to her calf is represented. On her right side posts meant for tying the cow are seen. This scene gives a very good picture of the life of a Yasfaya clan.

The second panel shows in its middle a woodcutter with an axe in his right hand and a staff on his left hand. Cattle are seen on his right and left sides. This panel also reflects the life of a cattle- rearing community.

The third panel shows a lady in the centre holding a mirror on her left hand and her right hand is raised but it is damaged. Her hairtyle is noteworthy. On her right and left sides a caste and a water pot are seen. A horse is seen on he relief this da and a man, probably a minister carrying a parasol is represented. From the horse and parasol, it is evident that the lady might be a Royal woman. Her raised hand, the presence of a relic casket and the harrayle depict that she might have committed said.

In the fourth panel, a hero is carrying a staff and a sword. On either side of him fighting bulls are seen. From this it is evident that the hero might have died in a bullfight. This also reveals the social life of a shepherd. Bull fighting might be his nestime event.

In the fifth panel, Krishna plays flute and on either side of him worshipping sages are seen. This might be probably the religious affiliation of the hero. Cuttle are also seen on both sides of Krishna. Moon and Sun are also represented in this panel. This is to denote that the fame of the bero is overlastine.

On the sixth tier a lings 11 seen inside a large kude.
On one side Vappdrapedul is seen making pujus on
the lings with incease and a bell. 'A puju vessel is
also seen below. A standing buil is seen on the other
side. The Moon and Sun are promunently represented
on this panet. The lings is the representation of the
one is panet. The lings is the representation of the
the spirit of the hero is devasted to the heaven after
this death. Maga metries are seen on the four corters.

of the top. This memorial pillar ends on the top like a stupa, which is also a commemorative motif. This memorial stone has no inscription. From this memorial stone we can be able to establish certain facts. First of all, this pillar gives a clare pieture of the social life of the yadava clas prevailed in that time. Cattle rearing, ball pillaring and also kimmistics involved in relation to cuttle rade, which are represented through different scenes. Their reliquies of the control of the control of the control of the control life, and their affinision to both the Sories sevel as the Valshawa bellefs are also critical pillaring their, the Viralings and the Verarbannula.

Memorial Stone from Thadskompu village, Dindigul district, Tamilnadu

This is also another unique memorial stone in the collection

of the Government Museum, Madural. This memorial stone is 6 ft in height and 1 ft in width and date back to about 16th Century A.D. Unlike the previous one, this memorial stone has relief sculptures on all the four sides of the pillar. From bottom to top this pillar has sculptured penals on five tiers.

In the south facing side, on all the three lower pennels, mae and woman are seen in might pose. On the forth the ra man is ending out a both. On the fifth side vibrate is respectived with the ridge of the forth the ram is reduced with the reduced by the reduced of the reduced by the reduced

On the first panel of the East facing side, a dancing lady is seen with a mirror on her left hand and not be right the Bero is belding swords on both the hands. On the second panel a man is holding a pet on his right hand and his left hange down. On his right side a lady is seen. On the third panel two herces are seen holding swords on both the hands. On the fourth panel a subbolding should be not been asset to be a superior of the belding hand on his left a lady is seen. All the punch of the seat facing is diese are presentable; they are On the first panel of the West facing side a man is seen in again pose and a liety in bolding sometime on both the bands and possess and liety in bolding sometime on both the bands on his right hand and a lady is seen with raised bands. Her handless the state of the bands of the bands of the seen, it is banging down and weiving in the aft. The raised hands seen, to banging down and weiving in the aft. The raised hands seen, the banging down and weiving in the aft. The raised hands seen and the seen of the seen of the seen of the seen of the seen, it is banging down and weiving in the after hand hand woman is seen with the right hand crusted and her left hanging seen with his right hand bolding a sweet due the lift is dismagned and not visible. A lady is also seen bolding something on her fit hand. On the last panel a sheemann is represented. Most of the fit hand of the last panel a sheemann is represented. Most of

All the sides end on the top with a kudu motif. A very interesting feature in this memorial store is the presence of some inscription on the base of the South and North facing sides. The inscription is in Tannii.

On the South facing side it reads like this: . . . da chethava . . thu kudi. The first line denotes "for the deceased herofs"

.... This may denote the name of the deceased hero(s). 5

In this memorial stone, the herces are represented with words in their hands and the said or the death of their wives is represented in the form of the mixed hands. Their religious faith a also withble from the representation of Vinhun with conch and discuss and also the representation of Siva linga, which denotes the final abode of the spirit of the hero that is the heaven because of his valiant death for a noble cause.

Conclusion

This type of multi-tiered memorial stone is not common in the Pandya or the Chola persois. These types of memorial pillars are only emerged during the Vijayanagar and Nayak periods. The multi-tiered memorial stones were erected both for the heroes as well as for the Sair. They are very common in Karnataka and Maharashar Saires. The present them of the memorial stones might have been an influence from these areas. Any how, these memorial stones reveal the social and cultural life of a group of people lived during the time of the Navak period in the part of Temilnadu

Footnotes:

- Tolkampiam: Puram 5 (It speaks of the six features of the nadukal: Katchi, Kalkol, Kallodu punara etc.).
- Puram: 260, 279
- Kural: 771, Akam: 131,387,67; Malaipadukadam Lines: 386 -389 4. Vyaehranada is the other great sage, a devotee of Naturaia, along
- with Pataniali (incarnation of Aduesha). According to legend he married the sister of VasisHeightha and had a son Unamaryu, to feed whom with milk, he had not the wherewithal, when the Lord in his mercy made an ocean of milk available to the child. This Vyazhrapada was such a great devotee of Siva that he had not the patience to eather slowly Bilva leaves, avoiding thorns as he placked them. At his request Siva endowed him with the feet of tizer so that he would not experience the prick of thorns as he suthered the spouts for worship. Purraneuru: 264, Here the name of the dead was inscribed on the stone.
- Purananuru: 264 Here the name of the dead was inscribed on the
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KODUMBALUR MUVARKOIL -- A NEW LOOK

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C. Govindarai.

Kodumbalur Muvarkoil is fastous both for its Architecture and Sculptural features and Epigraphical importance. Based mainly on the information containing in the unscription of Bhuti Vikramakesarii, scholars attribute the date for this temple, covering almost 300 years, ranging from 670 A.D. by Father there is to the second balf of the 10th Century by Nilakuntassisti⁸ and S.R. Ralsanbermanyam ⁸

Since the aim of this article is to give a probable new meaning for the 200 line of the inscription, we are not going to analyse the theories of various scholars regarding the date of the temple. Among them the date of closing years of 9th Century advocated by K.S. Krishnan, K.V. Subramanya Iyear, K.S. Valdyeauthan, F.V. Soundarrarajor and R. Nagasmay', and the identification of Bhui Vikrama Kesari with Maravas Podi alhas Tennavan Hango of Kilur inscription are acceptable.

The inscription is engraved on the southern wall of the Carral shrine of Muwakoli. The beginning of the inscription is mutilated. The undunged portion runs to twenty-four lines, comprising eleven full slokas (stanzas) in different metres, the language is Sanstri and the scripts Pallava Grantha of the type described as the "hidr of transitional" by Buhker', and sscribed by him to the "bad 10th Censuries A.D.

It contains a geneology covering nine generation of indivored chiefs who roled over this area, together with a record to the containing tha villages for the maintenance of fifty ascetics and for various offerings to the deity of this temple.

The recatich line of this inscription rands "Vinnanth ayan uthappy praistings mathersares awannana priyayananna". The singular 'Mahevaran Pratistapya indicates that this vinnantaryam is a single temple complet. In the last line of inscription also the temple is mentioned as a single one. Hence the vinnantaryam surolves a single complex of triple shafes, each shrine seemingly dedicated to an aspect of mahesa namely Agora, Vannadova and Teberorus.

Bhutisvaram⁹, Vikramakesavisvaram¹⁰ and Minnamalieswaraml I were the names of these three vimanas. which we come to know from the inscriptions of Muchukundesvara Temple of Kodumbalur, Chandrasekara Temple of Tiruchendurai, Tirupparaithurai and an inscription found by Mr. Rajendran recently near Kodumbalur. None of these or other inscriptions mention the presence of any temples named after Karrali or Varaguna at Kodubalur. So it is clear that the present Muvarkoil was a single temple comple and the vimanas were named after the builder as Bhutisvaram, Vikramakesarisvaram, and Minnamalaicswaram. But the inscription mentions that the Vikramakesari had erected three vimanas (Vimanatravam) on the names of his own and his two wives. Since the very inscription is engraved on the central shripe, which is flanked South and North by two other shrines of almost identical in appearance, all the scholars who studied this temple and its inscription, without giving a second thought assigned them to the builder and his two wives

Mwarkoll, the triple shrine complex being a single temple according to its own inscription, and named after the builder Bhuil Vikramakean alone, it was neither three temples nor was named after all the three personalities of its inscription. So, according to his inscription it is inferred Mwarkoll group under the names of this two wives. A striking smillarity of some architectural features help us to identify them and to some extent inscriptional evidences also support this view.

Chandrasakara Temple at Tiruchendurai and Agastisvara

Temple at Kilaiyur (Melapaluvur) are the two other temples built by Bhuti Vikramakesari named after his two wives Karrali and Varaguna alias Nakkan Bhuti or Nakkan Vikramakesari.

Architectural Similarities

- All the five (3 at Kodumbalur, Muvarkoil) are Dvitala, structural stone vimanas.
- Upanadi stupi parayantam, the entire structures are square in plan.
- The pilaster arrangement and the mukhabadra with kostas in the centres are same.

 4. The variety of adhistana used in all vimanas called
- padmabanda (Upana, Mahapadma, Vritakumutaka, Kanta, and Vyakvavi) is also the same.

 5. Minor floral decorations in the makara torana, pilasters and the throating amone the tarance curves in the botika are
- also similar.

 Above all the unique feature found exclusively in these three temples is the mixed axis in their stablates of first stone. In the case pentils, which cands, Eally Steam, pages the four ports' feering the kernaltures and sales of the stablates of the stablates and temples the complete the residence of the case of t

Inscriptional Supports

Chandrasekara Temple at Tiruchendurai

a) In an inscription (316 of 1903) of this temple Pudi Adichcha

Pidariyaz, daughter of Tennavan langowlar and queen of Arikula Kesariyar, son of Koparakeara pannar sis Solapperumanadigal mentions that this (Karralipperumanadigal) temple was built by us (tam edappatta). Since here father Bhuti Vikramakeara ialoc claims in his Muvarkoli lanceripion that he had eread temple on his wife Kærali's name, both in father and daughleighter would have jointly erected this temple.

 An inscription found by the Rajamanikkanar Historical Centre recently says that Pudi Aditha Pidari donated a land, to this temple and named 'Minnamalai Vayakkai',

(according to Muvarkoil inscription minna malai is the original name of Bhudi Vikramakesari)

 The other wife of Tennavam Ilango, Nakkan Vikramakesari also figures in an inscription of this temple (A.R. No. 306 of 1903, SII, VIII, 6II)
 Yet another inscription of this temple refers to the

pudisvarattu perumanadigal of Kodumbalur (A.R. No. 306 of 1903, SII, VIII, 602)

So all these inscriptional evidences namely,

1) The name of the deity-Karrali permanadigal.

2) The name of the donated land called 'Minnamalai Vayakal'

 The mentioning of Tam eduppitta by their daughter Padi Adicheha Pidari,

 The inscription of Nakkan Vikramakesari the other wife of the Chief,
 Mentioning of the counternart andisvaratty negumanadical

 Mentioning of the counterpart pudisvaratta perumanadigal of Kodumbalur,
 prove that this temple was creeted by Budi Vikramakesari

and named it after his wife. Karrali.

Agastisvara Temple at Kilaivur

Another wife of Bhuti Vikramakesari was Varaguna, though this name was not found in any inscription relating to him other than the Muyarkoil inscription. Nakkan pudi, a name mentioned in an inscription of this temple (357 of 1924) was one of his wives, and she was also called Nakkan Vikramakesari (Tiruchendurai Temple inscription) indicates that this was the second temple built after his wife Nakkan or Varaguna. We do not know Avanikandrapa Isvara, the name of this temple has any relevance to the names Nakkan or Varaguna. We ascribe this, temple of Bhuti Vikramakesari mainly on the hasis of architectural similarities

Thus, after erecting Karralipperumandigal Temple (Chandrasekara) at Tiruchendurai and Avani Gandarana Isvaragruham (Agastisvara) at Kilaiyur, naming them after Karrali and Varaguna (or Nakkan), the two wives of the chief, he erected the Kodumbalur triple shrine (Muvarkoil) and after his own names of Bhuti Vikramakesari and Minnamalai and engroved this portion of inscription "Vimanatrayam uttamppya pratistapya Mahesvaram Swayam namna, priyayonamaa",

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FORT ST. DAVID. CUDDALORE

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Introduction

Red Fort in Delhi is very familiar to all of us. Prime Minister usually hoists National Flag on the Independence Day, Fort St. George in Chennai is known to the people of Tamil nadu , the State Secretariat is functioning here. This Fort still stands like a phoenix bird after many attacks by the French and Nawab of Carnatic

Fort St. David is lesser known among the forts in India. It's history is not known to many people. The foundation for the British rule on the Coromandal Coast was laid only on the Fort St. David. Robert Clive served here as a renersentative of Fast India Company. This fort was the headquarters of East India Company from 1746 to 1752. It is located 4 kilometers from Cuddalore on the seashore now called the Silver Beach.

Location

Generally forts were built on the hillocks as a protection against invaders. But the Fort St. David constructed on the bank of river gadilam. Bay of Bengal is in the East. There is a stream at the North. All the four sides of this fort were surrounded by water and not very easily accessible. The Dotch had made first settlements at

Devanamnattinam around early decades of 17th Century. An Englishman. Fligu Yale bought the land and started constructing the fort at 1653 AD. There after driven out the Dutch settlers to Porto-Novo.40 Kms from Devanameattinam.

Fort and its Security Not much details are available regarding the size and

architecture of the fort but this fort was many a times attacked by its invaders. Only North-west and the North-east nortions of the fort are visible now

In the years A.D.1693, 1698, 1702, 1705 and 1740 this fort

was further extended and strengthened. Robert Clive the founder of British Empire in India started his career as both military and commercial head of the East India Company. His official residence, Garden House is now the camp office of the Collector of Cuddalore district.

First Headquarters of Tamil Nadu

Fort St. David served as head quarters for the English settlement from 1746 to1752 AD. A later inscription states that

IT WAS CAPITAL OF THE ENGLISH POSSESSIONS ON THE COROMANDAL COAST FROM 1746-1752 FORTIFICATIONS DEMOLISHED BY THE FRENCH AND SITE PRETORED TO THE FINGLISH IN 1758.

In 1758 this fort was heavily damaged by the French attack and Cuddalore lost the status of being the headquarters.

Brief Sketch of the Attacks

1712AD This fort was attacked by Swaroop Singh, Ruler of Gingee (He was the father of Raja Dejsing).

1748AD French Dupleix, Governor of Pondicherry attacked this fort for four times.

1746AD His first attack in December was failure. In the same year and same month Duplex attacked this fort once again. Now he was not successful in his attacks due to a storm at that time.

1747AD Dupleix made the third attempt.

1748AD Dupleix attempted again, an able commander Lawrence had driven out the French forces

1758AD This fort was besieged and captured by Count DeLally, a French Commander.

1760AD English General, Sir. Eyre Coote recovered this fort from the clutches of the Errach

1782AD The combined forces of Tippu and French capeared us fort

1783AD General Steward an English Commander recaptured thus fort from the French.

Reasons for Abandoning Cuddalore by the British 1. Cuddalore (Fort St. David) is very near to the

- Pondicherry then a French settlement

 2. Whenever war was broken between France and England
 - the colonies in Pondicherry and Cuddalore started fighting with each other.
- France was very strong before French Revolution (1789), therefore French forces attacked Cuddalore.

 Present Condition of Fort St. David

For St. David was seriously attacked by many forces the for thas lost its impertance. On the relies and mount many buildings like Superintendent of Police carap office, residence of Port Officer, The Gutst House of Parry and Company, Go down of the Medical Department and a Christian Prayer Hall were constructed. Now we can see the name Fort St. David only on the local post office seal at Devammpartians.

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HIBISCUS

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	don
Kingdom	Plant Kingdom
Division	Spermatophyta
Class	Dicotyledonae
Series	Thalamiflorac
Order	Malvales
Family	Malvaccac

Hibiscus is an ancient Greek name giver to a mallow-like plant (Malvaceae). It is a genus, comprising species, which are mostly green house perennial plants in this country. One common species is the 'Hibiscus rosasinensis'. This is a shrub or small tree. The dark green leaves are glossy on the upper surface and toothed on the margins. The calva of the large flowers is typically subtended by an enicalys. The netals are pink, but there are many cultivated forms with carmine red or yellow flowers. The protruding stamens are very decorative; their filaments are joined to form a column, which separate only at

Hibiarma



the tin. There are also many popular double forms. Specimens

with spotted leaves are common too. The family "Malyaceae", has about eighty-two genera and about 1500 species, distributed all over the earth and particularly abundant in the American tropics. It grows as berbs, shrubs or trees. Thespesia populnea, Hibiscus tiliaceous, Bombax malabaricum, Eriodendron, Adansonia etc., grows as trees. Hibiscus, Abutilon grows as shrubs, Sidha, Pavonia grows as herbs. Inflorescence is 'Cyme'. Flowers are diocclous, actinomorphic and hypogynous. The filaments are regiform and dehiscing longitudinally with the distinct pollen grains. Pistil is typically with the superior ovary. Placentation is axile and ovules are one to many in each locule. Seeds are often pubescent. The species of Hibistas, Malvastrum and Sida are rather widespread. A few other general like Thaspeits and Malva are represented by species adventive or naturalised from other countries. The pollen of most malvaceous plants is distinctive in that it is spirsy and the grants are large. Our of the thirty penera whose species are grown a few selective species, which are grown domestically and cultivated for ornamental purposes are given below.

Hibiteur coannabinus: (English: Deocan Hemp, Tamil: Pulichaikeerai) Under shrubs, they grow up to 2 m tall. Leaves grow 6-10 x 5.8 cm. Flowers are yellow with purplish centre. Occasionally cultivated around houses and in fields. Flowers and fruits are found through out the year. Leaves are used as zecen.

- Hibiscus hirtus:
 Under shrubs, their stems wiry. Leaves grow 4-6 x 3.4 cm.
 Occasionally cultivated in gardens as an ornamental plants,
 Flowers and fruits are found throughout the year.
- Hibixcus lobatus:
 Herbs, they grow up to 80 cm tall. Leaves grow 3-5 x 1.3.
 cm. It is a weed of waste places. Fruits and flowers are found during the month of November Mazeb.
- 4. Hibizeus ovalifolius: Under shrubs, they are up to 2m tall. Leaves grow 2-5 and are ovate. Flowers are 1.5 cm across. Capsules are sub globose. It grows in thickets and scrub jungles. Fruits and flowers are found during the month of March -September.
- 5. Hibiteus panduriformis; Under shrubs, they grow up to 1m tall. Leaves grow 3-6 x2.5 cm and 5 lobed, crenate-serrate. Flowers are pale yellow. It is a weed of railway tracks and other waste places. Flowers and fruits are found during the month of November – March.
- Hibiscus rosa-sinensis: (English: TheShoe-flower, Tamil: Chemparuthi)

Shrubs, they grow up to 5 m tall. Leaves grow 6-14 x 3.5 -10 cm. Margin is serrate. Flowers are usually red. Commonly cultivated in gardens as ornamental plants. Flowers are found throughout the year. It is a native of China and Northern India.

7. Hibiscus sabdariffa: (English: The Roselle) Under shrubs, they grow up to 1m tall. Leaves grow 6-9 x 5.7 cm, 3-5 lobed. Flowers are pale vellow with purplish centre. Occasionally cultivated in kitchen earden

8. Hibiscus schironetalus:

Shrubs, they grow up to 4 m tall; branches are pendant. Leaves grow 4-8 x 2.5 cm. These are ovate and serrate. Flowers are orange - red. Commonly cultivated in garden as ornamental plants. Flowers are found throughout the year.

9. Hibiscus surrattensis: (Tamil: Kattu pulichai) Under shrubs, leaves grow 4-7, 3-5 lobed. Flowers are vellowish. Cansules are ovoid. Flowers and fruits are found during the month of November - April. Petals have a strong vellow dve.

10. Hibiscus tiliaceous; (Tamil: Neer paruthi) Seen along the seashores, fairly common; cultivated as an

avenue tree. Flowers and fruits are found throughout the war.

11. Hibiscus vitifolius:

Under shruhs, they grow up to 1.5 m tall. Leaves grow 4-8. the lower are 3-5 lobed and the upper are serrate. It is commonly seen as a weed along railway tracks and roadsides.

Out of these, Hibircus rosa-sinensis belonging to Asia and Hibiscus scironetalus from east tropical Africa are cultivated as Green house species. The former requires full sun and a light fertile soil and grows well both in the low lands and in mountain districts below 4500'. It is the most attractive of the Hibiscus with many coloured forms and hybrids. The later is the most handsome species of the renus and is often used for hedges.

Economically the family is of greatest importance for the action of commerc (Eg. Gostypium herbaccum, Garborum from Asia) obtained from the worky coma of the seeds, and for the oil and the pally obtained from the seeds, littleast exalients is the lady's finger, which is used as vegetable. (Hibitians is the lady's finger, which is used as vegetable. (Hibitians of the commercial fine of the commercial fine of the commercial fine of the commercial production of Theoretical populates (Pootvarias marzam) is used for making agricultural implements and wooden articles.

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THE BATS

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Introduction

The bat is the only mammal, which can really fly. Though certain mammals like flying squirrels and flying lemurs are also adapted for flying, the bats alone exhibit true flight. As there is no evidence to show the phyloseny of bats, we do not know how did the bat attains the wings for flight? Certain features in their structures, the bats have relationship with insectivores like hedgehogs, moles, tree shrews, ground shrews, etc., It is believed that the ancestors of bats have undergone arboreal life (Tree dwelling) which were insectivores (Insect feeders). Before the bats learnt to fly, learnt to dwell in trees and to leap into the air. The primitive forms of bats were probably helped by their webbed forelimbs, and by parachate-like extensions of skin connecting hody and limbs. The internal urve for the development of wines was to capture the insects for feeding. The primitive bats were insectivores, whereas the advanced group being frugivores (Fruit feeders).

System Position Kingdom

Phylom Chordata Sub phylum Vertebrata Class Chiroptera

This order chiroptera (In Greek, cheirs - hand; pteron - a wing) includes bats, which have the power of true flight among mammals (Groups possessing milk glands to suckle their young ones?

Animalia

Characteristic Features

The forelimbs are modified into wings for flight. The wing is formed by a continuous fold of the skin, called pergetam which hegins from the shoulder and extends between the long fingers of fore - arm to the hind - less and even to the tail. The first digit, thumb is short, with a claw. The ulne is reduced, while radius is long and curved in the fore-arm. Hind limbs and pelvic girdle are poorly developed, while the pectoral girdle is strong and the sternam has a keel for the attachment of filehe muscles. The external car or prinns is large and sense of hearing is very acute. Bars possess echo-location apparatus which help them to locate objects during flight

Eyes are small and the vision is very noor. They have on the branches of the trees or roofs with head downwards, by clinging their hind - legs.

The order chirostero is further divided into 2 sub orders namely.

- 1. Micro chiroptera 2. Mesa chimptera
- 1 Micro chimatera Regarding this, the bats are small and insectivores (Insect
- feeders) The molar teeth have cusped crowns : the thumb is clawed: the tail is bounded by the inter femoral membrane: the snout is short and nose leaf is present. ea Rhinolophus (Horse shoe but) Indian vamnire (Blood sucking bat: sanguivores)

2. Mega chiroptera

In relation to this sub-order, the bats are large and fruguivorous (Fruit feeders: fruit eating bats). The molar seeth have smooth crowns with loneitudinal errores The second digit is clawed, the tail is not bombed by the inter femoral membrane. The snout is elongated and without nose leaf.

eg. 1. Pteropus (Flying fox).

2 Cynonterus (short- nosed fruit eating bar). Structure in relation to habite

Wines Arms and hands are the frame work of bats' wings. Their developmental nattern is as that of vertebrate fore - limb There is the unner arm ending the elbow, the double - bored (Radius and ulna) fore - arm ending at the wrist and the hand with a thumb and four fingers. The thumb is free, the fingers are lengthened and embedded in the leathery wing membrane to support it. Like the ribs of an umbrella, they can open and close the wing and keen it tout when expanded. The flexibility of the wine is due to the jointed fineer-bones. The facile movements of the icents adapt the wing to changing air currents. The flying membrane which extends to the feet and surreads between the legs is called as inter-femoral membrane enclosing the tail. Besides this membrane, there is an anti-brachial membrane, an accessory flying membrane, rising from the region of the neck, connecting with the humerus and fore-arm. Bats with long tanering wings are the swiftest fliers, eg. Sheath-tailed bats (Tanhozous melanonogon). Bats with short rounded wrings are slower in flight, eg. Horse shoe bat (Rhniolophus)

Legs

Compared with the highly developed forebody and arms, the hind counters and legs of buts are weak. Buts do not use their legs for holding and catching the prev. The feet of bats, which having cave habitat, are usually larger enabling them to cling flattened surface better. The claws of the hind -legs are commonly used to clean and comb their fur or even as toothpicks. But the bats use their legs rarely for walking and climbing. The objective of the leg is for securing a hold after landing

Telle

The tails of bats may be long or short or invisible to see. The tail is used as a book when climbing, and facilitates flight

Teeth

All bats are feeding voraciously, some bats' molar teeth have sharp cusps to their crowns; shaped some what like the letter W. these sharp pointed teeth are well adapted for holding and mercing the exoskeleton of heetles and other inserts. The blood sucking bats called vampires have their teeth especially modified foe piercing the skin of animals. The teeth of fruit bats are modified for chewing the fruits and extracting the nectar or fruit

Sense
Bats are noctarnal, that is active during night. As the vision
is poor, they have highly developed echo system. They are able
to produce ultransonie counds which is inaccessible to human
beings which strikes upon the obstacles and reflected back to
them. This warning echoes enable and golde the bats to locate
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guides the bats during flight. Hibernation

1 Fruit bate

It is a phenomenon in which animals undergo domancy to overcome extreme cold in winter. Hence it is called winter sleep. The bats living in northern countries undergo this phenomenon. During this phenomenon, the bats do not move. It requires low energy. Stored fast and glycoga are the sources of energy. Resc of respiration, metabolism, heart beat, temperature and endocrine activity are lowered.

Bass are classified on the bases of nature of food they intake. They are

These bats intake only fruits. The distribution of bats depends upon the fruiting seasons. When the fruiting season persists, the oppulation of Pringivorous bats (Fruit cating bats) will be abundant, when the fruiting season ceases, the fruit bats leave that place

e.g.: Cynopterus sphinz (Fruit but).

Insectivorous bass
Rainy season is the breeding season of insects. During this
season, the distribution of these bats will be more to feed
upon the insects.eg. Taphotous melanopogon (Sheathtailed

 Carnivorous bats
 Certain bats are blood-suckers. They pierce the skin of birds, frog and even fish and suck the blood.
 e. e. Mesaderma (tra (Vannstre bats))

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NEO CONSERVATION

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Introduction

Conservation is the word now used frequently in various walks of life. There are various terms like conservation of energy. wants or mis. There are various terms may conservation of energy, conservation mass, conservation of fuel, conservation of forests, conservation of soil etc. But conservation of antiquities, art, monuments, beritage etc., is now talked much, as many have understood the importance of conservation of art, cultural and natural heritage. In the present day condition, conserving antiquities is important, but where is the trained mannower to do the work? It is the duty of State and Central Governments to create awareness in conservation with the existing infrastructure of the country. The method of creating awareness in conservation is through all the possible media including competitions like quiz, elocution, essay writing, poetry writing, training, publication etc. What ever may be the media, unless the public are involved, any system will be a failure. Especially involving students from college and school is very crucial as they involve narrents, teachers also. There is a proverh - If you want to teach the students, teach the teachers first. Similarly if one wants to teach children, one must teach the parents first. Involving public in conserving our art, cultural heritage is called the "Neo Conservation"

Conservation

What is conservation? Conservation is any action taken to increase the life espectatory of any art. cultural or maintain object for posterity. The legacy given to us by our foreithers should for posterity. The legacy given to us by our foreithers about a conservation of the conservation. All conservations are conservation. All direct actions take to increase the fire especiatory of an object is called the Preventive Conservation. All direct actions take to increase the fire especiatory of an object is called laterventive or Centrive of the trained persons in conservation and conservation of the trained persons in conservation and conservation professionals. But the preventive conservation is the day of all

those who are in the country, especially those who are at the proximity of the heritage, besides those who visit the heritage.

Need for Conservation

India is rich for the art, cultural and natural heritage. No other country is a rich a that of ours. The history is also ancient and therefore the remnants of the past are also at large. If they are not taken care of the, we will be desirred and solf retree. It is the days of every one to take care of the principles treasure, which our ancestors left for us. Ever though, there are departments for the condex rated of art, cultural and natural with the waiting the contract of the condex retree of the contract of the contra

The Methodology Neo Conservation is the new methodology of involving the

one-profusional like students, teachers, general public and visities to the assumes to, the momentum and inhurced sites etc., to take part in the concernation of the set, coltant and natural of the public again of concerning the post teach teaching when a media or training programmes incidenting an interest of in the conservation in the missel of those who are interested in the trend in the recent part to have knowledge of conserving the trend in the recent part to have knowledge of conserving the trends and the properties also have included this subject in the fatter, after any unreview and the students of the contraction of the conference.

1. Choice and Planning of Projects

- Publicity and
 Public Involvement
- 4. Regular Monitoring Planning of Projects

When any conservation project is formulated, it is very important to choose the pertinent project and plan the modalities of the project well in advance so that the project is accepted

or well in burns

very well. It is very important to make the administrators to understand the problem and take up the issues so that proper financial support is sought and received from government or other sources. It is always better to plan in such a way that the conservation modalities do not have any side effect while construction modalities do not have any side effect while construction modalities are not not to the state of the proper have finded. In most of the cases, research was not carried out before any project is put into action.

Publicity

Publicity is another important factor of a conservation project, before its taken off. Public and the press are keen in knowing things well in advance and if they are motivated, they come forward to take up the work. Publicity through various media like television, radio, books, pamphiets, brochures etc., are very useful for creating awareness in conservations, they are very useful for creating awareness in conservations the television project in the public press etc., are highly motivated and publicity is very easily achieved in conservation.

Public Involvement

Involvement of the general public in the conservation of heritage is the essence of Neo Conservation. It involves acquiring the knowledge of the heritage, conservation principles, involving the public in the actual carrying out of the work. Any project with the involvement of the public will be very successful. There fore, it was thought of by me about 20 years back to involve the students' community public in any conservation work and I was successful in any project carried out by me in the past. Even in the collection of antiquities, I mainly used the general public who were interested in the heritage conservation starting from giving information about the loose sculptures, coins, stone inscriptions etc., and bringing them to the museums for preserving them for posterity. They were also used in the conservation activities and exhibitions. They were taken to excavation sites, monuments and historical sites to understand our art, cultural and natural heritage.

Neo Conservation Programmes

Many conservation projects have been conducted by the

author in many a places, where the projects were actively involved by the general public and students and conservation awareness was created among the students. Students show special concern for such activities. In the beginning many opposed the principle of involving students and general public in conservation projects in Tamil Mark. Now-ad-spt is it very common that all the conservation projects are linked with training programmes. The propers is a fourth with the conservation of the projects and the appreciation of the press is of very thick offers.

The Usefulness of Nee Conservation

Noe conservation plays a very important cole in the conservation of an administration of the time that the proventions are relating the said tenegal the experiments are relating the said tenegal the experiments in the time to train people interested in conservation in the time conservation projects conducted by specialized organization to its critic people interested in conservation in the time organization to take care of them with lenst exposure or regularization to take care of them with lenst exposure or regularization to take care of them with lenst exposure or regularization to take care of them with lenst exposure or regularization to take care of them with lenst exposure or regularization to take care of them with lenst exposure or regularization to take care of them with lenst exposure or regularization to take care of them with lenst exposure or regularization to the control of the production of the production of the mountain and the control in length of the control in le

Regular Monitoring Monitoring is one of the important aspects of good

conservation work for the success of any project. But especially in the case of Noc Conservation, monitoring creates a motivation for the people involved in the project. Noc Conservation will be a failure with out proper monitoring. If new avenues are created, Noc Conservation will take a fresh dimension in conserving the art and cultural haritage.

Conclusion

Neo Conservation is a growing field, which has got importance as many organizations are interested in conserving the cultural monuments in their locality. People have come forward to conserve structural monuments and the art and cultural objects in them for posterity by their involvement disceedy, All such conservation projects may not be taken up by government and the projects of the projects of the projects of the processor value of the projects of the projects of the progovernmental organizations and the government departments are interested to conserve the art and cultural herizing for posterity.



